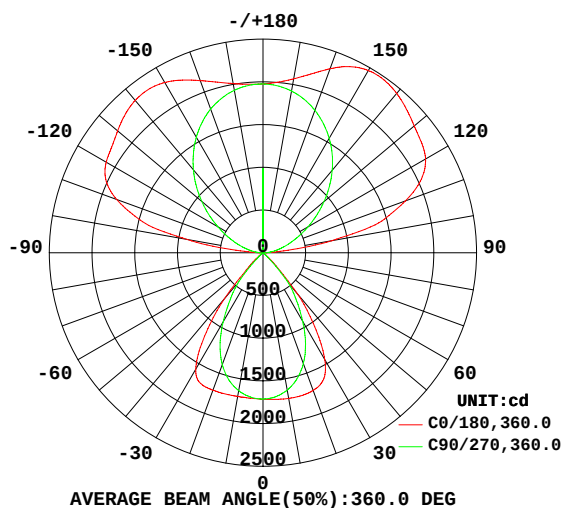


LUMINAIRE PHOTOMETRIC TEST REPORT

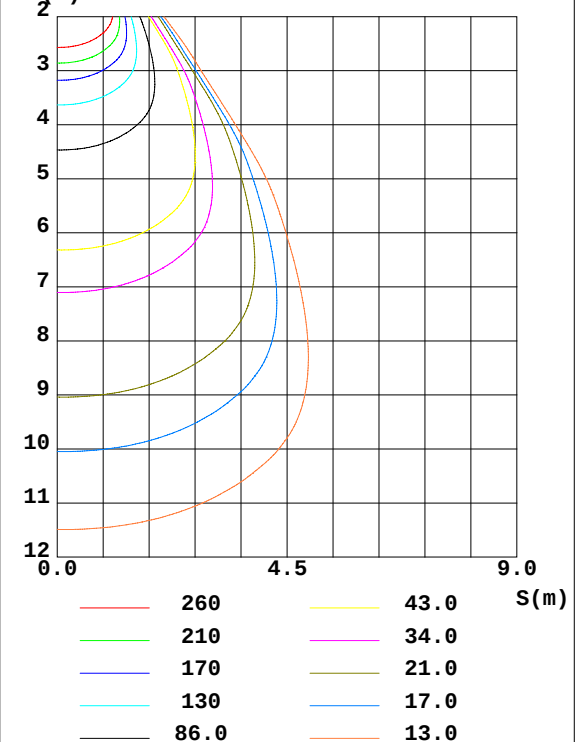
Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 138.55 lm/W			
MODEL		I _{max} (cd)	2477	S/MH(C0/180)	1.12
NOMINAL POWER(W)	80	LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	10630	η UP, DN(C0-180)	39.7, 10.0
NOMINAL FLUX(lm)	10630	CIE CLASS	SEMI-IND.	η UP, DN(C180-360)	40.5, 9.9
LAMPS INSIDE	1	η up(%)	80.2	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	19.8	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

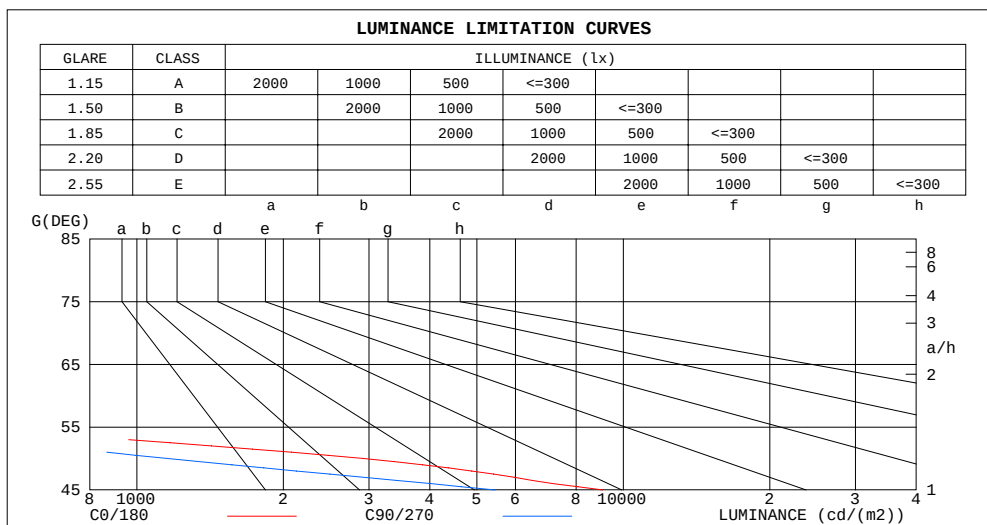
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1731	1680	1633	1664	1708	1665	1639	1688	0- 10	161.7	161.7	1.52,1.52
20	1715	1555	1381	1538	1712	1527	1394	1576	10- 20	457.7	619.5	5.83,5.83
30	1449	1232	933.0	1252	1575	1235	932.0	1248	20- 30	652.1	1272	12,12
40	628.5	627.7	465.5	637.7	700.1	630.0	437.3	602.6	30- 40	568.7	1840	17.3,17.3
50	62.88	252.8	24.88	236.8	73.75	235.0	25.04	209.8	40- 50	234.5	2075	19.5,19.5
60	1.816	11.80	1.429	11.68	1.603	10.56	1.495	12.06	50- 60	30.37	2105	19.8,19.8
70	0.9381	0.6798	0.7047	0.6712	0.7291	0.6435	0.6956	0.7037	60- 70	1.612	2107	19.8,19.8
80	0.6666	0.4097	0.3096	0.2922	0.2662	0.2749	0.2577	0.5168	70- 80	0.5515	2107	19.8,19.8
90	1.383	0.9107	0.1117	0.2062	0.3007	0.4553	17.45	1.246	80- 90	0.4874	2108	19.8,19.8
100	816.8	1012	143.8	972.2	900.2	1043	141.3	974.1	90-100	358.0	2466	23.2,23.2
110	1773	1446	338.0	1337	1821	1456	338.6	1410	100-110	1041	3507	33,33
120	2197	1732	609.6	1615	2119	1732	610.0	1719	110-120	1358	4865	45.8,45.8
130	2311	1954	932.8	1807	2220	1942	935.8	1956	120-130	1449	6314	59.4,59.4
140	2436	2070	1261	1895	2328	2037	1267	2083	130-140	1409	7723	72.6,72.6
150	2464	2064	1550	1921	2301	2028	1561	2083	140-150	1229	8951	84.2,84.2
160	2292	2017	1776	1940	2144	1999	1791	2038	150-160	925.8	9877	92.9,92.9
170	2068	1985	1923	1957	2011	1979	1931	2001	160-170	564.1	10441	98.2,98.2
180	1977	1977	1977	1977	1977	1977	1977	1977	170-180	188.8	10630	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.900m [K=0.8403]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	261	59
80	114	53
75	79	55
70	82	61
65	90	68
60	108	85
55	475	297
50	2911	1152
45	9066	5442

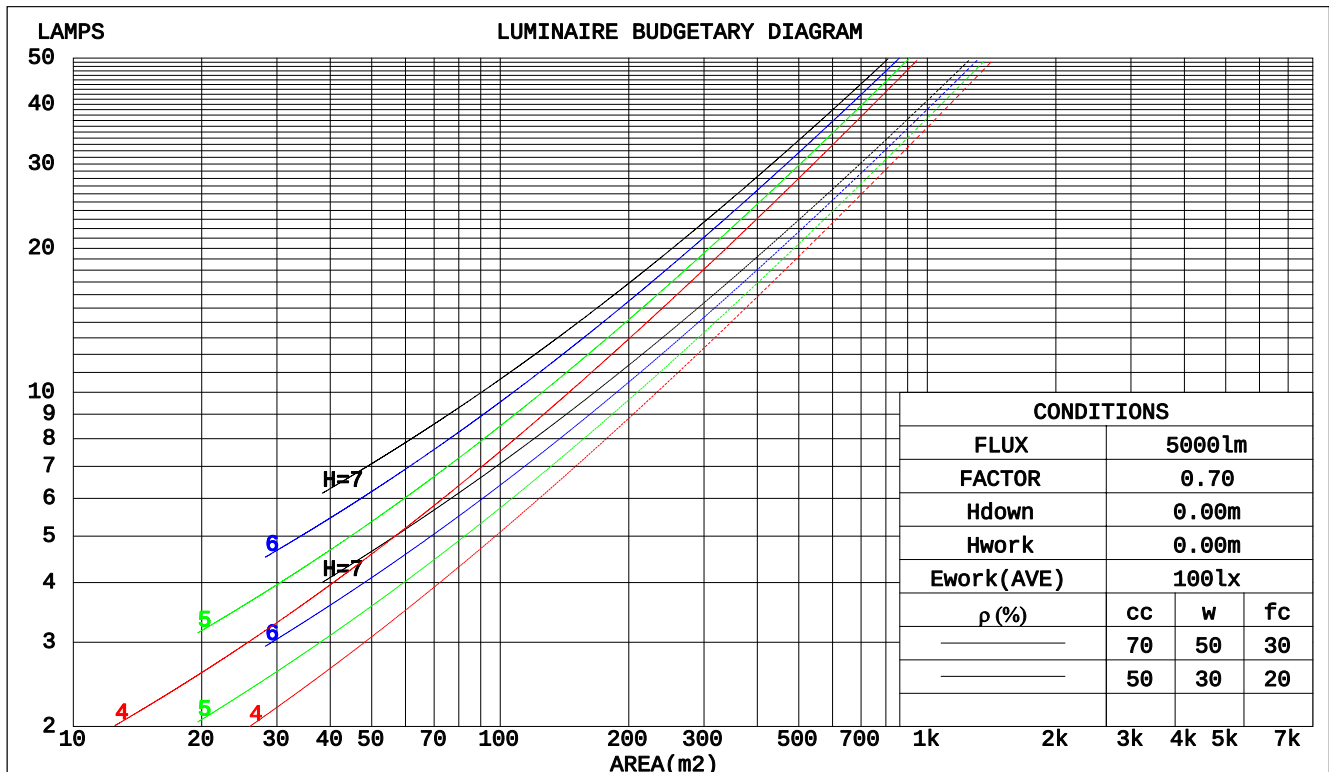
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.00	.00	.00	.88	.88	.88	.67	.67	.67	.47	.47	.47	.28	.28	.28	.20
1.0	.88	.85	.82	.78	.75	.73	.59	.58	.56	.42	.41	.40	.26	.26	.26	.18
2.0	.78	.73	.68	.69	.65	.61	.53	.50	.48	.38	.37	.35	.24	.24	.23	.17
3.0	.69	.63	.58	.62	.56	.52	.48	.44	.41	.35	.33	.31	.22	.22	.21	.16
4.0	.62	.55	.50	.55	.50	.45	.43	.39	.36	.31	.29	.27	.21	.20	.19	.14
5.0	.56	.48	.43	.50	.44	.39	.39	.35	.32	.29	.26	.24	.19	.18	.17	.13
6.0	.50	.43	.38	.45	.39	.34	.35	.31	.28	.26	.24	.22	.18	.16	.15	.12
7.0	.45	.38	.33	.41	.35	.30	.32	.28	.25	.24	.21	.19	.17	.15	.14	.11
8.0	.41	.34	.30	.37	.31	.27	.30	.25	.22	.22	.20	.18	.15	.14	.13	.10
9.0	.38	.31	.26	.34	.28	.24	.27	.23	.20	.21	.18	.16	.14	.13	.12	.10
10.0	.35	.28	.24	.31	.26	.22	.25	.21	.18	.19	.16	.15	.13	.12	.11	.09



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

WEC AND CCEC

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm									
NAME:				TYPE:				WEIGHT:	
SPEC.:				DIM.: 1203*52*31				SERIAL No.:	
MFR.: A238-KNLT26-007-01				SUR.:0.8*0.042				Shielding Angle:	

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.244	.138	.044	.212	.121	.038	.154	.088	.028	.101	.058	.019	.051	.030	.010		
2.0	.226	.124	.038	.197	.109	.033	.144	.080	.025	.095	.053	.017	.050	.028	.009		
3.0	.210	.112	.033	.184	.098	.030	.135	.073	.022	.090	.049	.015	.048	.026	.008		
4.0	.195	.101	.030	.171	.090	.027	.126	.067	.020	.085	.045	.014	.046	.025	.008		
5.0	.182	.093	.027	.160	.082	.024	.119	.062	.018	.080	.042	.013	.044	.023	.007		
6.0	.171	.086	.025	.150	.076	.022	.112	.057	.017	.076	.039	.012	.042	.022	.007		
7.0	.160	.079	.022	.141	.070	.020	.105	.053	.015	.072	.037	.011	.040	.021	.006		
8.0	.151	.074	.021	.133	.066	.019	.100	.050	.014	.068	.034	.010	.038	.020	.006		
9.0	.142	.069	.019	.126	.061	.017	.094	.047	.013	.065	.032	.009	.037	.019	.005		
10.0	.134	.064	.018	.119	.057	.016	.089	.044	.012	.062	.031	.009	.035	.018	.005		

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.801	.801	.801	.685	.685	.685	.467	.467	.467	.269	.269	.269	.086	.086	.086	
1.0	.792	.773	.755	.677	.663	.650	.463	.456	.450	.267	.264	.262	.085	.085	.085	
2.0	.783	.752	.726	.671	.648	.628	.460	.448	.438	.265	.261	.257	.085	.084	.084	
3.0	.776	.737	.706	.665	.636	.612	.457	.442	.429	.264	.258	.253	.085	.084	.083	
4.0	.770	.726	.692	.660	.627	.602	.454	.437	.424	.263	.256	.251	.085	.083	.082	
5.0	.764	.717	.683	.656	.620	.594	.452	.433	.419	.262	.254	.249	.084	.083	.082	
6.0	.758	.710	.675	.651	.615	.588	.449	.430	.416	.261	.253	.247	.084	.083	.082	
7.0	.753	.704	.670	.647	.610	.584	.447	.428	.414	.260	.252	.246	.084	.083	.081	
8.0	.748	.699	.666	.644	.607	.581	.445	.426	.412	.259	.251	.246	.084	.082	.081	
9.0	.743	.695	.663	.640	.603	.578	.443	.424	.411	.258	.250	.245	.084	.082	.081	
10.0	.738	.692	.661	.637	.601	.576	.442	.423	.409	.258	.250	.244	.084	.082	.081	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 1203*52*31			SERIAL No.:				
MFR.: A238-KNLT26-007-01			SUR.:0.8*0.042			Shielding Angle:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
x = 2H y = 2H	11.3	12.0	12.5	13.1	14.6	9.7	10.4	10.8	11.5	13.0
3H	10.9	11.5	12.1	12.7	14.2	9.3	9.9	10.5	11.0	12.6
4H	10.8	11.3	11.9	12.4	14.0	9.1	9.7	10.3	10.8	12.4
6H	10.6	11.1	11.7	12.2	13.8	8.9	9.4	10.1	10.6	12.1
8H	10.5	10.9	11.6	12.1	13.7	8.8	9.3	10.0	10.4	12.0
12H	10.3	10.8	11.5	11.9	13.5	8.7	9.2	9.9	10.3	11.9
4H 2H	10.8	11.3	11.9	12.4	14.0	9.1	9.7	10.3	10.8	12.4
3H	10.4	10.8	11.5	12.0	13.6	8.7	9.2	9.9	10.3	11.9
4H	10.1	10.6	11.3	11.7	13.3	8.5	8.9	9.7	10.1	11.7
6H	9.9	10.3	11.1	11.4	13.1	8.3	8.7	9.5	9.8	11.5
8H	9.8	10.1	11.0	11.3	13.0	8.2	8.5	9.4	9.7	11.3
12H	9.7	10.0	10.9	11.2	12.8	8.1	8.4	9.3	9.6	11.2
8H 4H	9.8	10.1	11.0	11.3	13.0	8.2	8.5	9.4	9.7	11.3
6H	9.6	9.9	10.8	11.0	12.7	8.0	8.2	9.2	9.4	11.1
8H	9.5	9.7	10.7	10.9	12.6	7.9	8.1	9.1	9.3	11.0
12H	9.4	9.6	10.6	10.8	12.5	7.8	7.9	9.0	9.2	10.8
12H 4H	9.7	10.0	10.9	11.2	12.8	8.1	8.4	9.3	9.6	11.2
6H	9.5	9.7	10.7	10.9	12.6	7.9	8.1	9.1	9.3	11.0
8H	9.4	9.6	10.6	10.8	12.5	7.8	7.9	9.0	9.2	10.8
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / -22.5					+ 2.7 / -24.9				
1.5H	+ 4.6 / -12.8					+ 4.0 / -17.5				
2.0H	+ 5.6 / -19.7					+ 5.3 / -20.9				

CIE Pub.117, 10630 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 8.2)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:

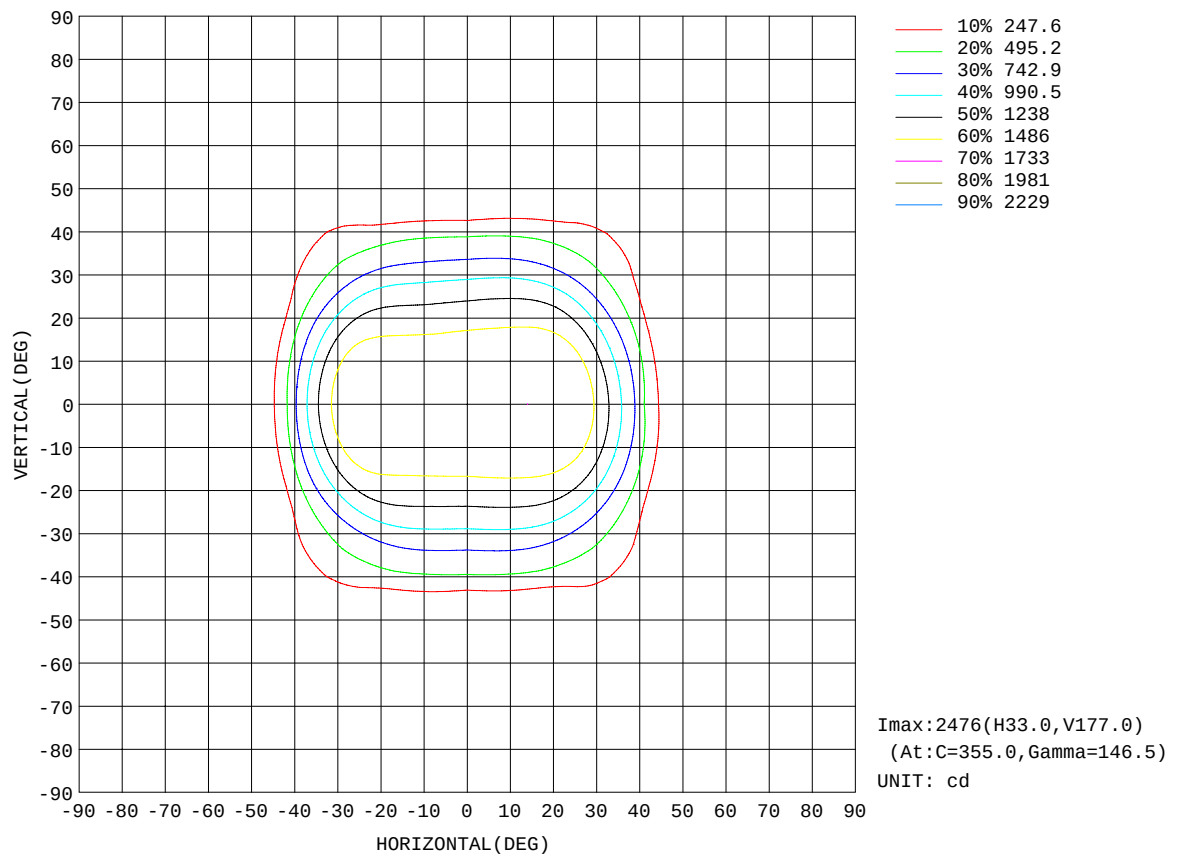
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	40	30	25	37	28	23	31	25	21	13
0.80	49	38	32	44	35	30	37	30	26	15
1.00	56	44	38	50	41	35	41	34	30	16
1.25	62	51	44	56	47	41	45	38	34	17
1.50	67	57	49	60	51	45	47	42	37	18
2.00	74	64	57	66	58	52	51	46	42	18
2.50	78	69	63	69	62	57	54	49	45	19
3.00	81	73	67	72	66	61	56	52	48	19
4.00	85	79	74	76	71	66	58	55	52	19
5.00	88	83	78	78	74	70	60	57	54	19
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

ISOCANDELA DIAGRAM

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:

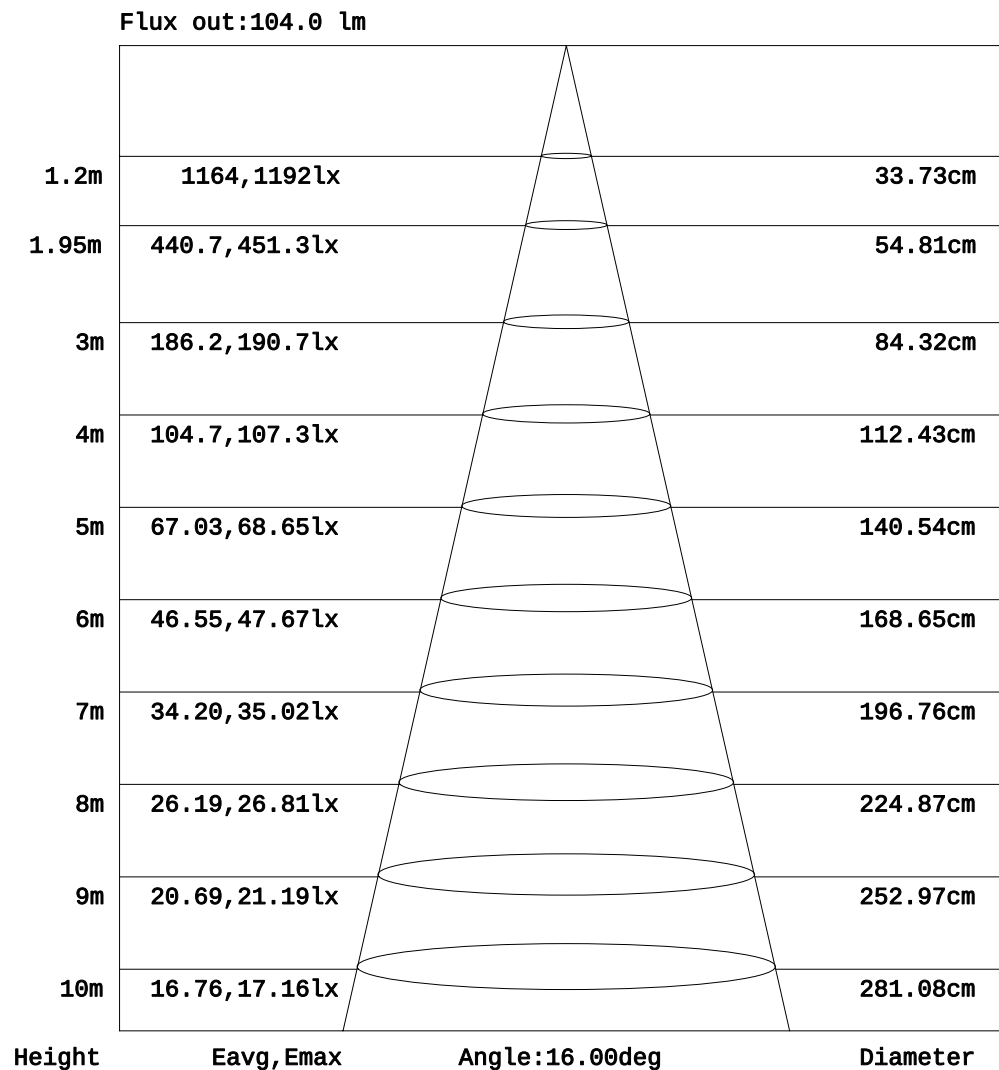


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

AAI Figure

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:



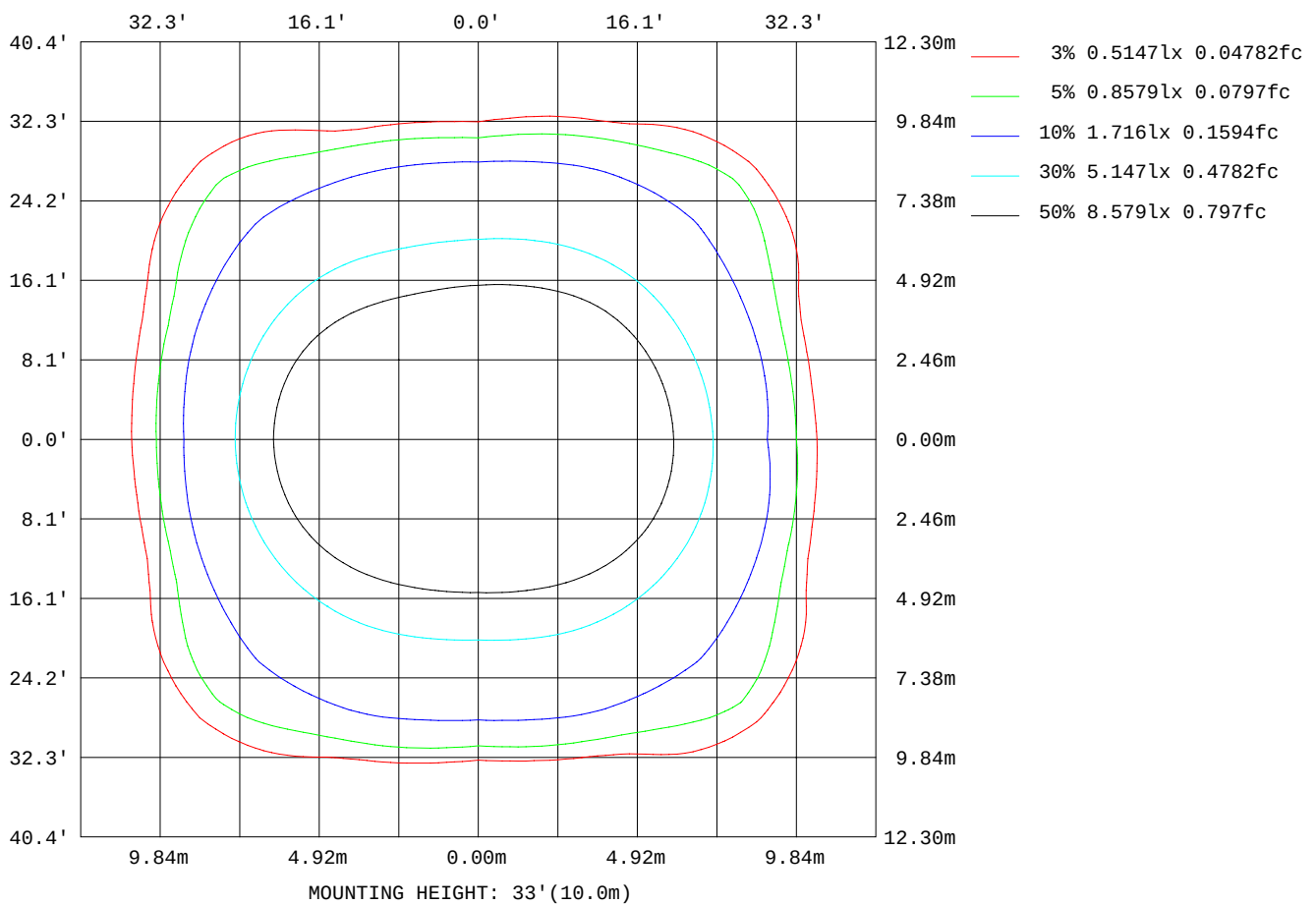
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators:
 Test Date: 2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
 Humidity: 65.0%
 Test Distance: 11.900m [K=0.8403]
 Remarks:

ISOLUX DIAGRAM

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

LED Avg.L Report

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1203*52*31	SERIAL No.:
MFR.: A238-KNLT26-007-01	SUR.:0.8*0.042	Shielding Angle:

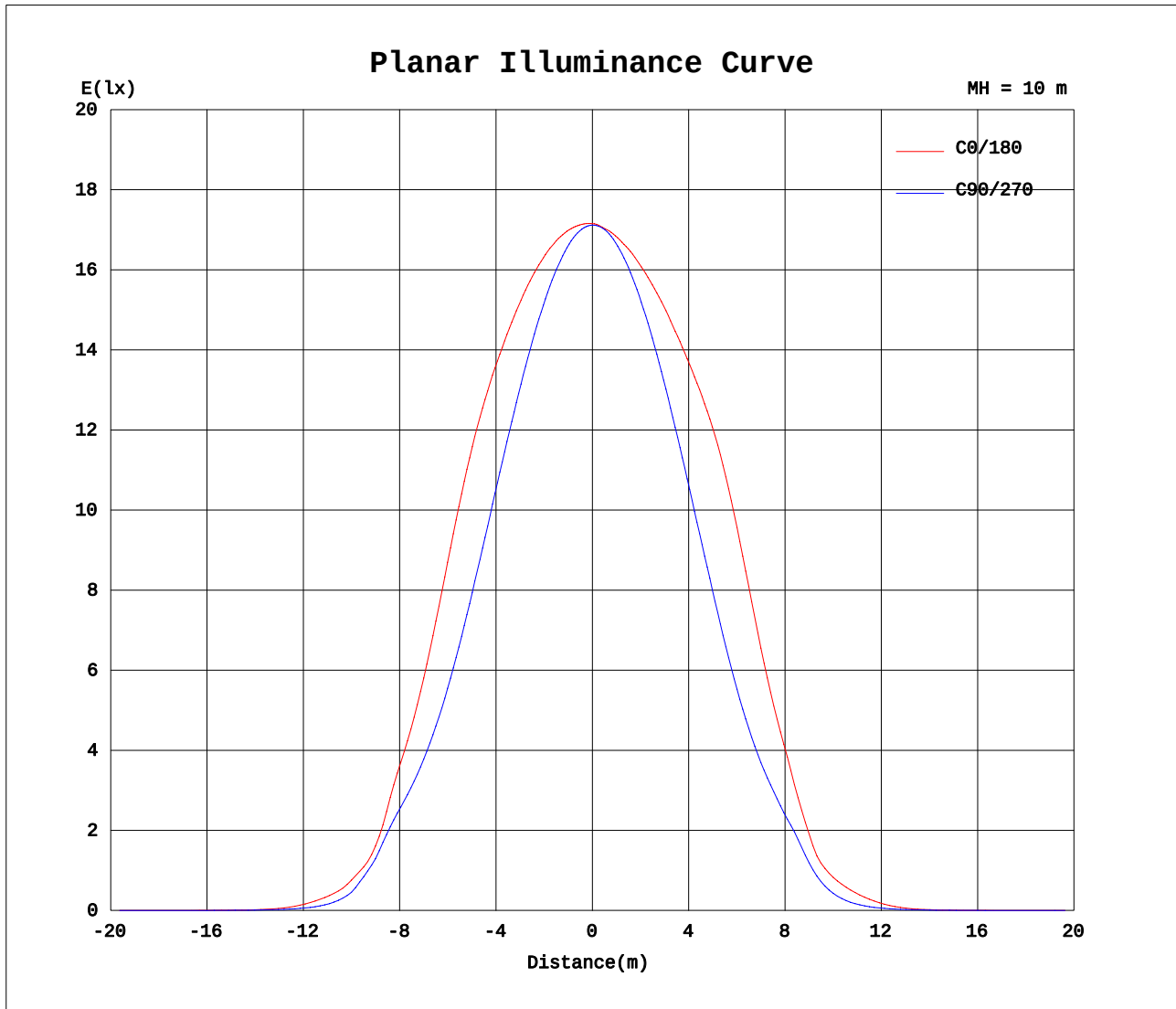
AvgL	cd/m2
L_0~180(65)av	85
L_0~180(75)av	65
L_0~180(85)av	174
L_90~270(65)av	70
L_90~270(75)av	52
L_90~270(85)av	65
L_45(65)av	119
L_45(75)av	53
L_45(85)av	139

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.900m [K=0.8403]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators:
Test Date: 2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.900m [K=0.8403]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 1203*52*31						SERIAL No.:		
MFR.: A238-KNLT26-007-01									SUR.:0.8*0.042						Shielding Angle:		

Table--1

UNIT: cd

C(°)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	1715	1716	1716	1716	1715	1715	1715	1714	1713	1713	1713	1713	1713	1712	1712	1712	1712	1712	1712
5	1723	1723	1722	1721	1720	1718	1715	1713	1710	1708	1706	1703	1701	1700	1698	1696	1695	1693	1692
10	1731	1730	1728	1724	1719	1713	1705	1697	1688	1680	1672	1664	1657	1651	1645	1641	1637	1634	1633
15	1732	1729	1724	1717	1707	1695	1681	1665	1649	1632	1616	1600	1586	1572	1560	1549	1541	1535	1531
20	1715	1709	1700	1688	1673	1655	1632	1608	1582	1555	1527	1500	1474	1450	1429	1411	1397	1386	1381
25	1656	1650	1639	1624	1604	1577	1546	1511	1473	1434	1394	1354	1316	1281	1249	1223	1201	1187	1179
30	1449	1451	1446	1435	1417	1391	1357	1319	1277	1232	1187	1141	1098	1056	1019	987	961	943	933
35	1056	1064	1066	1063	1054	1038	1015	988	958	926	893	860	827	796	766	738	715	698	688
40	628	648	662	672	677	675	668	657	644	628	613	596	579	561	540	515	493	476	466
45	215	226	239	256	276	308	347	384	413	430	403	364	318	268	224	189	160	139	129
50	62.9	63.8	69.8	80.9	96.9	126	166	204	235	253	219	175	124	73.9	41.1	28.1	21.9	21.2	24.9
55	9.16	10.8	13.3	16.7	21.0	27.9	37.0	45.3	52.0	55.8	48.3	38.2	26.9	15.7	8.49	5.83	4.70	4.77	5.72
60	1.82	1.61	1.74	2.19	2.97	4.53	6.73	8.85	10.6	11.8	10.3	8.21	5.82	3.42	1.90	1.38	1.17	1.21	1.43
65	1.27	1.16	1.09	1.06	1.07	1.16	1.32	1.49	1.63	1.73	1.58	1.40	1.19	0.98	0.88	0.87	0.89	0.93	0.97
70	0.94	0.91	0.89	0.86	0.83	0.80	0.77	0.73	0.70	0.68	0.67	0.66	0.66	0.67	0.67	0.68	0.69	0.70	0.70
75	0.69	0.67	0.64	0.62	0.60	0.58	0.55	0.53	0.51	0.49	0.47	0.45	0.43	0.42	0.42	0.43	0.45	0.47	0.48
80	0.67	0.65	0.63	0.61	0.58	0.55	0.52	0.48	0.45	0.41	0.37	0.33	0.30	0.27	0.26	0.27	0.28	0.30	0.31
85	0.76	0.82	0.85	0.85	0.84	0.79	0.72	0.63	0.53	0.44	0.37	0.31	0.26	0.21	0.19	0.17	0.17	0.17	0.17
90	1.38	1.40	1.41	1.39	1.36	1.30	1.23	1.14	1.03	0.91	0.74	0.57	0.40	0.25	0.15	0.11	0.10	0.10	0.11
95	202	225	249	275	302	337	379	416	444	458	426	381	328	270	216	169	128	94.4	70.7
100	817	824	835	849	867	904	956	997	1019	1012	896	754	600	447	330	256	200	163	144
105	1439	1450	1453	1449	1437	1425	1410	1380	1332	1260	1110	943	770	602	470	378	308	259	233
110	1773	1786	1788	1776	1752	1720	1679	1621	1544	1446	1284	1109	930	757	615	511	429	371	338
115	2046	2040	2023	1995	1956	1910	1856	1787	1701	1597	1434	1260	1082	910	766	655	566	501	463
120	2197	2173	2143	2105	2061	2014	1965	1904	1827	1732	1575	1405	1232	1063	920	807	716	650	610
125	2261	2234	2203	2167	2126	2088	2050	2001	1937	1854	1705	1542	1373	1209	1069	960	871	806	767
130	2311	2292	2267	2238	2203	2170	2136	2091	2032	1954	1813	1658	1499	1343	1212	1110	1028	968	933
135	2375	2360	2339	2312	2279	2246	2210	2164	2105	2029	1897	1754	1607	1464	1345	1254	1182	1130	1099
140	2436	2421	2400	2372	2338	2301	2260	2209	2146	2070	1951	1824	1694	1570	1467	1390	1329	1285	1261
145	2469	2454	2432	2403	2366	2324	2275	2219	2154	2080	1977	1870	1762	1661	1577	1515	1466	1432	1412
150	2464	2445	2419	2388	2350	2305	2253	2195	2132	2064	1982	1898	1816	1739	1676	1628	1591	1565	1550
155	2404	2380	2352	2320	2283	2242	2196	2147	2094	2040	1979	1919	1861	1807	1762	1728	1701	1682	1671
160	2292	2269	2244	2217	2189	2158	2125	2090	2054	2017	1977	1938	1900	1865	1836	1814	1796	1783	1776
165	2166	2150	2134	2117	2099	2081	2061	2041	2020	1999	1976	1953	1932	1912	1895	1882	1872	1865	1860
170	2068	2058	2049	2039	2030	2021	2012	2003	1994	1985	1975	1965	1955	1947	1939	1933	1929	1925	1923
175	2004	1999	1995	1991	1987	1984	1982	1980	1979	1977	1975	1972	1970	1968	1966	1965	1963	1962	1962
180	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 1203*52*31					SERIAL No.:				
MFR.: A238-KNLT26-007-01									SUR.:0.8*0.042					Shielding Angle:				

Table--2

UNIT: cd

C(DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	1712	1712	1712	1711	1711	1711	1710	1710	1709	1709	1709	1709	1709	1710	1711	1713	1714	1715	1716
5	1692	1691	1691	1692	1692	1693	1694	1694	1695	1696	1697	1698	1699	1701	1703	1705	1707	1709	1709
10	1633	1634	1636	1639	1643	1648	1652	1658	1664	1670	1676	1682	1688	1693	1699	1703	1706	1708	1707
15	1532	1536	1542	1550	1560	1571	1584	1597	1611	1626	1641	1655	1669	1681	1692	1701	1708	1711	1709
20	1384	1392	1404	1419	1439	1461	1485	1511	1538	1565	1592	1618	1642	1663	1682	1697	1707	1712	1707
25	1184	1196	1215	1240	1271	1307	1347	1389	1433	1477	1520	1561	1599	1632	1659	1680	1694	1700	1692
30	940	956	981	1013	1052	1097	1146	1198	1252	1307	1360	1410	1457	1496	1528	1552	1568	1575	1569
35	696	712	735	763	795	830	867	906	946	987	1026	1064	1098	1128	1152	1172	1185	1192	1190
40	476	493	515	539	562	581	600	619	638	658	676	693	706	712	712	708	704	700	705
45	146	173	207	247	290	335	376	409	429	408	375	337	296	267	251	241	236	235	241
50	24.6	28.3	36.7	50.8	81.1	125	170	208	237	220	193	159	124	98.9	86.2	77.9	73.8	73.7	76.8
55	5.15	5.47	7.01	10.1	18.1	30.3	42.5	53.1	60.7	54.9	46.1	35.5	24.4	16.6	12.7	10.3	9.17	9.39	10.9
60	1.32	1.37	1.65	2.22	3.73	6.06	8.35	10.3	11.7	10.3	8.34	6.05	3.73	2.23	1.67	1.42	1.42	1.60	1.62
65	0.94	0.90	0.88	0.89	0.98	1.15	1.34	1.50	1.62	1.54	1.42	1.27	1.13	1.05	1.05	1.06	1.09	1.13	1.15
70	0.69	0.68	0.66	0.65	0.64	0.65	0.65	0.66	0.67	0.69	0.70	0.72	0.73	0.74	0.73	0.73	0.72	0.73	0.77
75	0.46	0.44	0.42	0.40	0.39	0.39	0.40	0.42	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.43	0.44	0.47
80	0.29	0.28	0.26	0.24	0.24	0.25	0.26	0.28	0.29	0.28	0.27	0.25	0.24	0.23	0.23	0.24	0.25	0.27	0.29
85	0.17	0.16	0.16	0.16	0.17	0.18	0.19	0.20	0.21	0.20	0.20	0.20	0.20	0.20	0.21	0.23	0.24	0.25	0.26
90	0.12	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.21	0.23	0.25	0.27	0.28	0.29	0.29	0.29	0.29	0.30	0.33
95	62.5	67.2	85.9	120	187	283	382	474	549	551	533	499	455	409	364	323	289	266	278
100	130	135	163	217	328	490	661	826	972	1019	1039	1037	1018	994	969	943	919	900	911
105	220	231	269	335	457	630	816	1003	1177	1280	1361	1421	1464	1490	1501	1502	1498	1489	1499
110	329	346	392	467	595	771	962	1154	1337	1458	1559	1642	1708	1756	1788	1808	1818	1821	1831
115	457	480	532	613	745	921	1111	1303	1485	1602	1699	1780	1846	1903	1952	1989	2015	2030	2037
120	606	631	686	769	900	1072	1257	1442	1615	1720	1805	1874	1930	1981	2031	2071	2100	2119	2123
125	765	792	846	927	1051	1215	1388	1562	1724	1821	1900	1962	2011	2055	2095	2126	2148	2161	2167
130	932	957	1007	1082	1196	1343	1500	1658	1807	1902	1981	2045	2096	2138	2171	2195	2211	2220	2228
135	1099	1121	1165	1231	1329	1456	1592	1730	1863	1956	2037	2105	2162	2206	2238	2261	2276	2284	2294
140	1260	1279	1316	1371	1451	1555	1666	1782	1895	1985	2066	2138	2200	2247	2280	2304	2319	2328	2338
145	1412	1426	1455	1498	1561	1640	1727	1818	1910	1992	2069	2140	2202	2251	2285	2310	2326	2336	2347
150	1549	1559	1581	1613	1659	1717	1781	1850	1921	1989	2054	2116	2171	2216	2248	2273	2290	2301	2311
155	1670	1677	1692	1714	1746	1786	1832	1880	1931	1981	2030	2077	2120	2155	2182	2204	2219	2230	2237
160	1774	1778	1787	1801	1821	1846	1876	1907	1940	1973	2006	2037	2066	2091	2110	2125	2136	2144	2149
165	1859	1861	1865	1872	1883	1897	1913	1931	1949	1968	1987	2005	2022	2036	2047	2056	2063	2068	2072
170	1922	1922	1923	1926	1930	1935	1942	1950	1957	1966	1974	1982	1990	1996	2001	2005	2008	2011	2013
175	1961	1961	1960	1961	1961	1963	1964	1966	1968	1969	1971	1972	1974	1975	1977	1978	1979	1979	1980
180	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm																		
NAME:									TYPE:					WEIGHT:				
SPEC.:									DIM.: 1203*52*31					SERIAL No.:				
MFR.: A238-KNLT26-007-01									SUR.:0.8*0.042					Shielding Angle:				

Table--3

UNIT: cd

C(DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	1716	1716	1715	1715	1715	1714	1713	1713	1713	1713	1713	1712	1712	1712	1712	1712	1712	1712	1712
5	1709	1708	1707	1706	1704	1703	1701	1699	1698	1697	1696	1695	1695	1694	1695	1695	1695	1696	1696
10	1705	1702	1697	1692	1686	1679	1672	1665	1659	1652	1647	1642	1639	1637	1637	1637	1639	1641	1645
15	1703	1695	1684	1672	1657	1641	1625	1609	1594	1579	1566	1555	1547	1542	1539	1539	1541	1546	1553
20	1697	1681	1662	1639	1613	1585	1556	1527	1498	1471	1446	1424	1408	1398	1392	1391	1394	1402	1414
25	1677	1654	1625	1590	1549	1505	1460	1413	1366	1322	1280	1244	1217	1199	1189	1186	1190	1203	1221
30	1553	1529	1497	1456	1406	1352	1294	1235	1174	1116	1061	1013	976	951	936	929	932	947	970
35	1181	1166	1144	1114	1078	1037	992	945	893	842	794	751	717	694	679	672	672	685	704
40	710	714	715	708	694	675	654	630	603	575	547	520	495	473	455	443	437	450	470
45	251	265	283	311	346	377	401	413	380	336	285	233	191	161	139	126	122	140	166
50	83.6	94.1	108	133	167	198	222	235	202	160	113	66.2	36.2	25.0	20.3	20.8	25.0	25.3	28.8
55	13.5	17.1	21.7	28.6	37.4	45.5	51.8	55.3	47.5	37.2	25.8	14.5	7.38	5.00	4.17	4.53	5.73	5.15	5.37
60	1.80	2.18	2.79	4.13	6.08	7.96	9.53	10.6	9.20	7.32	5.18	3.03	1.71	1.29	1.16	1.25	1.49	1.35	1.37
65	1.17	1.20	1.23	1.30	1.39	1.48	1.55	1.59	1.51	1.40	1.28	1.16	1.07	1.03	1.01	1.01	1.01	1.01	1.03
70	0.82	0.86	0.89	0.87	0.82	0.75	0.69	0.64	0.67	0.71	0.75	0.79	0.80	0.78	0.75	0.72	0.70	0.73	0.76
75	0.49	0.52	0.54	0.53	0.49	0.45	0.41	0.39	0.41	0.45	0.49	0.53	0.53	0.51	0.48	0.45	0.43	0.45	0.48
80	0.31	0.33	0.35	0.35	0.33	0.31	0.29	0.27	0.29	0.30	0.32	0.33	0.33	0.31	0.29	0.27	0.26	0.28	0.30
85	0.26	0.26	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.27	0.26	0.25	0.24	0.23	0.22	0.21	0.21	0.22	0.23
90	0.36	0.39	0.42	0.45	0.46	0.47	0.47	0.46	0.41	0.36	0.31	0.26	0.21	0.19	0.17	0.17	17.5	0.24	0.30
95	302	333	369	409	449	482	504	510	462	400	330	257	196	150	112	84.5	68.2	70.3	84.4
100	929	952	976	1009	1046	1069	1070	1043	911	755	589	427	306	234	183	153	141	137	152
105	1507	1509	1504	1490	1466	1425	1364	1278	1115	935	752	576	441	352	288	248	230	228	250
110	1834	1827	1808	1774	1723	1654	1566	1456	1283	1097	910	731	588	487	412	362	339	340	369
115	2032	2014	1983	1939	1882	1807	1714	1601	1430	1246	1061	884	739	631	549	493	465	471	506
120	2116	2098	2067	2028	1980	1916	1835	1732	1568	1391	1211	1037	893	784	699	640	610	619	658
125	2163	2150	2127	2098	2061	2009	1939	1849	1694	1525	1352	1185	1045	939	856	798	769	780	821
130	2229	2221	2204	2178	2144	2094	2028	1942	1797	1639	1477	1320	1190	1091	1015	962	936	947	986
135	2296	2290	2274	2248	2209	2157	2090	2005	1872	1729	1583	1443	1327	1239	1172	1126	1104	1115	1150
140	2341	2336	2320	2290	2246	2189	2120	2037	1920	1796	1672	1553	1454	1380	1323	1285	1267	1276	1307
145	2350	2344	2328	2296	2247	2188	2118	2040	1943	1843	1743	1650	1571	1511	1465	1434	1420	1429	1455
150	2314	2308	2293	2261	2214	2159	2096	2028	1953	1877	1804	1735	1677	1631	1596	1572	1561	1569	1590
155	2239	2233	2220	2195	2157	2113	2065	2013	1959	1906	1855	1808	1767	1735	1710	1693	1686	1692	1709
160	2151	2147	2138	2121	2095	2066	2033	1999	1965	1930	1898	1867	1841	1821	1805	1795	1791	1796	1808
165	2073	2071	2066	2057	2042	2025	2007	1987	1968	1949	1931	1915	1900	1889	1880	1875	1873	1877	1884
170	2014	2014	2012	2008	2002	1995	1987	1979	1971	1963	1955	1948	1942	1937	1934	1932	1931	1934	1938
175	1980	1980	1980	1979	1978	1977	1975	1974	1973	1971	1970	1969	1968	1967	1966	1966	1966	1967	1969
180	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:
 Test Date:2026-03-19

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.900m [K=0.8403]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:229.68V I:0.3419A P:76.725W PF:0.9772 Freq:49.99Hz Lamp Flux:10630x1 lm																	
NAME:									TYPE:						WEIGHT:		
SPEC.:									DIM.: 1203*52*31						SERIAL No.:		
MFR.: A238-KNLT26-007-01									SUR.:0.8*0.042						Shielding Angle:		

Table--4

UNIT: cd

γ (DEG) \ C (DEG)	C (DEG)																			
	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355					
0	1712	1711	1711	1711	1710	1710	1709	1709	1709	1709	1709	1709	1710	1712	1713					
5	1697	1698	1700	1701	1703	1705	1707	1709	1711	1713	1714	1716	1718	1720	1721					
10	1649	1654	1659	1666	1673	1680	1688	1695	1701	1707	1713	1718	1722	1726	1729					
15	1562	1572	1585	1599	1614	1630	1646	1661	1675	1688	1700	1710	1718	1725	1729					
20	1430	1448	1470	1496	1522	1549	1576	1601	1625	1646	1666	1682	1694	1704	1711					
25	1246	1275	1308	1345	1384	1424	1463	1498	1531	1561	1587	1610	1627	1641	1651					
30	1000	1035	1074	1117	1161	1206	1248	1284	1316	1345	1371	1394	1413	1428	1440					
35	728	756	787	818	850	882	912	934	955	973	989	1005	1020	1033	1045					
40	493	518	540	558	574	589	603	614	624	631	636	639	640	638	635					
45	199	236	277	319	357	387	406	383	349	310	270	241	226	217	213					
50	36.4	48.8	75.3	114	152	186	210	193	167	136	103	80.0	68.5	61.8	60.0					
55	6.74	9.60	17.2	29.0	40.6	50.7	57.9	51.9	43.0	32.3	21.4	13.7	10.00	8.00	7.72					
60	1.61	2.16	3.70	6.14	8.54	10.6	12.1	10.7	8.67	6.33	3.95	2.32	1.59	1.26	1.33					
65	1.07	1.12	1.24	1.42	1.59	1.74	1.85	1.78	1.66	1.52	1.38	1.29	1.25	1.23	1.24					
70	0.80	0.83	0.83	0.79	0.76	0.72	0.70	0.76	0.82	0.89	0.95	0.99	1.00	1.00	0.98					
75	0.51	0.54	0.55	0.54	0.53	0.52	0.52	0.56	0.59	0.63	0.67	0.70	0.71	0.71	0.70					
80	0.33	0.37	0.40	0.43	0.46	0.49	0.52	0.55	0.58	0.60	0.63	0.64	0.66	0.66	0.67					
85	0.26	0.30	0.37	0.46	0.55	0.64	0.71	0.74	0.74	0.74	0.73	0.73	0.74	0.75	0.76					
90	0.39	0.49	0.63	0.79	0.96	1.11	1.25	1.29	1.31	1.31	1.30	1.31	1.32	1.34	1.36					
95	110	146	204	279	354	422	475	470	449	415	374	336	304	272	237					
100	188	248	361	520	685	841	974	1002	1000	977	941	911	891	869	844					
105	297	372	500	675	861	1045	1215	1305	1371	1416	1444	1463	1476	1476	1464					
110	426	513	651	835	1031	1227	1410	1525	1618	1689	1741	1779	1802	1809	1799					
115	571	665	807	993	1190	1388	1574	1694	1792	1872	1934	1983	2021	2044	2053					
120	727	824	968	1151	1345	1539	1719	1830	1920	1991	2047	2095	2137	2168	2188					
125	890	986	1126	1305	1492	1677	1848	1947	2025	2084	2129	2169	2206	2233	2252					
130	1052	1143	1275	1444	1620	1794	1956	2048	2120	2175	2215	2249	2279	2299	2310					
135	1209	1292	1412	1566	1727	1887	2036	2126	2197	2253	2294	2328	2356	2373	2379					
140	1359	1431	1535	1668	1809	1950	2083	2171	2245	2305	2352	2390	2418	2435	2441					
145	1498	1558	1643	1750	1865	1982	2095	2181	2256	2322	2376	2418	2448	2467	2474					
150	1624	1671	1736	1816	1903	1993	2083	2161	2234	2300	2357	2402	2433	2454	2464					
155	1734	1769	1814	1870	1931	1995	2060	2123	2184	2241	2292	2333	2363	2385	2398					
160	1825	1848	1878	1914	1954	1995	2038	2081	2123	2162	2199	2229	2252	2270	2283					
165	1895	1909	1927	1947	1970	1993	2018	2042	2066	2089	2110	2127	2141	2152	2160					
170	1944	1951	1960	1969	1980	1990	2001	2012	2023	2033	2043	2050	2057	2061	2065					
175	1971	1974	1977	1980	1982	1985	1988	1991	1994	1996	1998	2000	2002	2003	2004					
180	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977	1977					

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:
Test Date:2026-03-19

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.900m [K=0.8403]
Remarks: