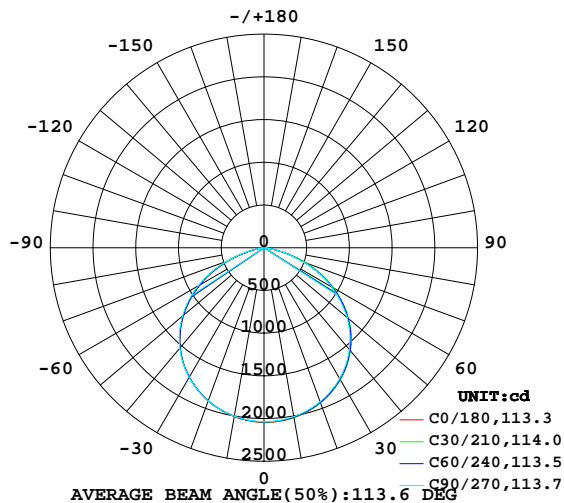


LUMINAIRE PHOTOMETRIC TEST REPORT

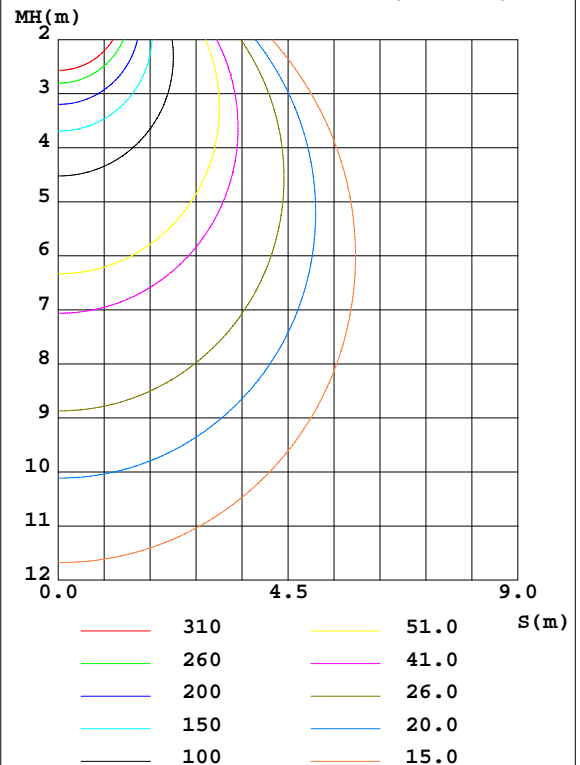
Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 98.22 lm/W			
MODEL		I _{max} (cd)	2045	S/MH(C0/180)	1.27
NOMINAL POWER(W)	60	LOR(%)	100.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	5696.5	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	5696.47	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

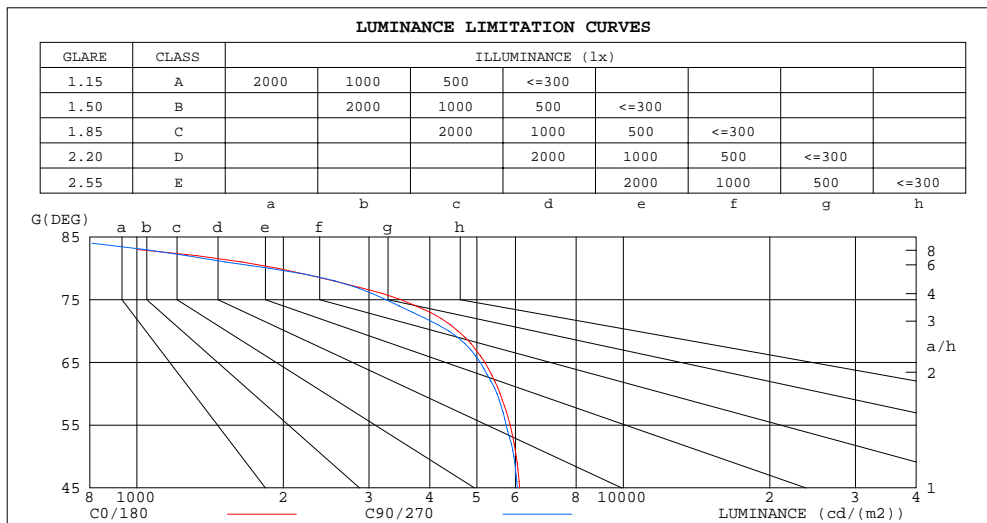
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	2019	2015	2007	2000	2007	2002	2002	2004	0- 10	192.9	192.9	3.39,3.39
20	1932	1930	1918	1906	1909	1904	1908	1913	10- 20	555.5	748.5	13.1,13.1
30	1785	1785	1768	1753	1750	1745	1753	1764	20- 30	850.9	1599	28.1,28.1
40	1570	1575	1554	1534	1526	1522	1533	1550	30- 40	1039	2639	46.3,46.3
50	1284	1295	1269	1246	1230	1228	1247	1269	40- 50	1086	3725	65.4,65.4
60	925.2	938.4	912.3	890.1	860.7	865.8	887.4	919.6	50- 60	968.8	4694	82.4,82.4
70	518.3	521.1	496.2	464.4	444.7	450.6	455.6	501.8	60- 70	686.5	5380	94.4,94.4
80	111.9	112.9	107.6	80.65	76.74	71.92	88.87	100.2	70- 80	287.2	5668	99.5,99.5
90	3.600	3.720	3.325	3.351	4.691	4.682	4.716	4.656	80- 90	28.97	5696	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



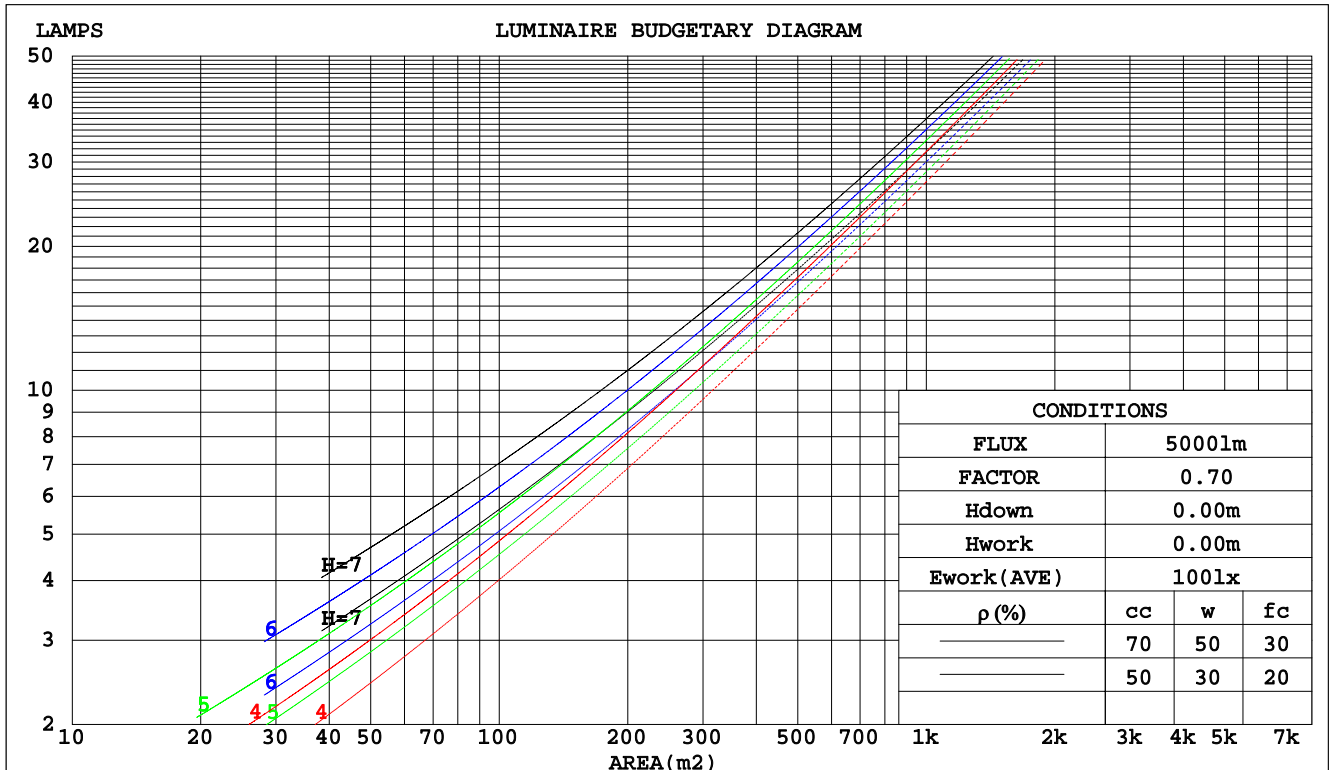
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.70	.62	.56	.68	.61	.55	.66	.60	.55	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.48	.61	.54	.48	.59	.52	.47	.57	.51	.47	.45
6.0	.58	.49	.42	.57	.48	.42	.55	.47	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.37	.51	.43	.37	.50	.42	.37	.48	.42	.37	.47	.41	.36	.35
8.0	.48	.39	.33	.47	.39	.33	.46	.38	.33	.44	.38	.33	.43	.37	.33	.31
9.0	.44	.35	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.29	.28
10.0	.40	.32	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 650*40			SERIAL No.:		
MFR.: NLT23-0015-01			SUR.:3.14*0.325*0.325			Shielding Angle:		

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.286	.163	.051	.279	.159	.051	.266	.152	.049	.254	.146	.047	.242	.141	.045	
2.0	.277	.152	.047	.270	.149	.046	.259	.144	.045	.248	.139	.044	.238	.135	.043	
3.0	.260	.138	.041	.254	.136	.041	.244	.132	.040	.235	.129	.039	.226	.125	.039	
4.0	.242	.126	.037	.237	.124	.037	.228	.121	.036	.220	.118	.036	.212	.115	.035	
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032	
6.0	.210	.105	.030	.206	.104	.030	.199	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.196	.097	.027	.193	.096	.027	.186	.094	.027	.180	.092	.027	.174	.091	.027	
8.0	.183	.090	.025	.180	.089	.025	.175	.087	.025	.169	.086	.025	.164	.084	.025	
9.0	.172	.083	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.160	.077	.022	.155	.076	.021	.151	.075	.021	.147	.074	.021	

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.179	.156	.136	.153	.134	.117	.105	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.011	
3.0	.163	.114	.076	.139	.099	.066	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.052	.092	.061	.036	.053	.036	.021	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.029	.051	.032	.017	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.084	.050	.024	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.116	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.117	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 650*40			SERIAL No.:			
MFR.: NLT23-0015-01					SUR.:3.14*0.325*0.325			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	2H	19.3	20.8	19.5	21.0	21.2	19.2	20.7	19.5	20.9	21.1
	3H	20.6	21.9	20.9	22.2	22.4	20.4	21.8	20.7	22.0	22.3
	4H	20.9	22.2	21.2	22.5	22.7	20.8	22.1	21.1	22.3	22.6
	6H	21.0	22.3	21.4	22.5	22.8	20.9	22.1	21.2	22.4	22.6
	8H	21.0	22.2	21.3	22.5	22.8	20.8	22.0	21.2	22.3	22.6
	12H	21.0	22.1	21.3	22.4	22.7	20.8	21.9	21.1	22.2	22.5
4H	2H	19.8	21.1	20.2	21.4	21.7	19.8	21.1	20.1	21.3	21.6
	3H	21.3	22.4	21.6	22.7	23.0	21.1	22.3	21.5	22.6	22.9
	4H	21.7	22.8	22.1	23.1	23.4	21.5	22.6	21.9	22.9	23.2
	6H	21.9	22.8	22.3	23.1	23.5	21.7	22.6	22.1	23.0	23.3
	8H	21.9	22.7	22.3	23.1	23.5	21.7	22.5	22.1	22.9	23.3
	12H	21.8	22.6	22.3	23.0	23.4	21.7	22.4	22.1	22.8	23.2
8H	4H	21.8	22.7	22.3	23.1	23.4	21.7	22.5	22.1	22.9	23.3
	6H	22.0	22.7	22.5	23.1	23.6	21.9	22.6	22.3	23.0	23.4
	8H	22.1	22.7	22.5	23.1	23.5	21.9	22.5	22.4	22.9	23.4
	12H	22.0	22.6	22.5	23.0	23.5	21.9	22.4	22.4	22.9	23.3
12H	4H	21.8	22.6	22.2	23.0	23.4	21.6	22.4	22.1	22.8	23.2
	6H	22.0	22.6	22.5	23.1	23.5	21.9	22.5	22.3	22.9	23.4
	8H	22.0	22.6	22.5	23.0	23.5	21.9	22.4	22.4	22.9	23.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.5					
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4					

CIE Pub.117, 5696 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 6.0$)

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

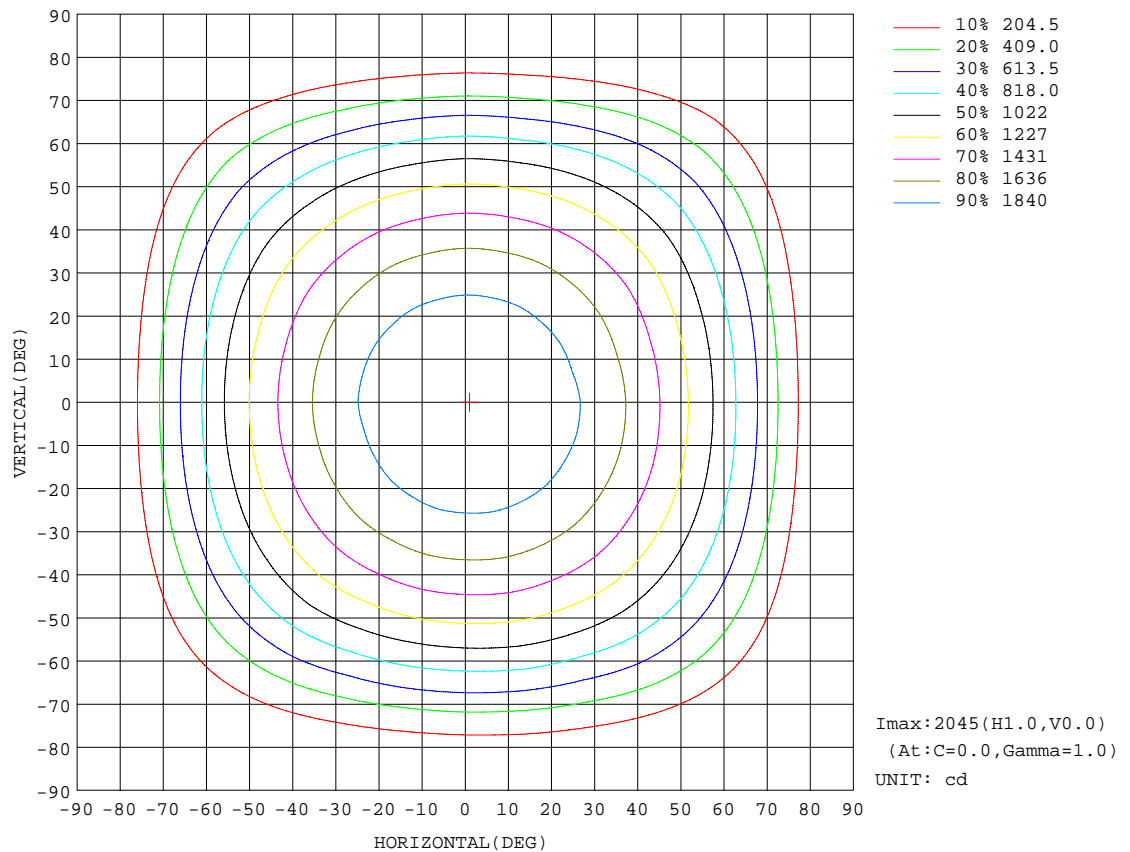
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

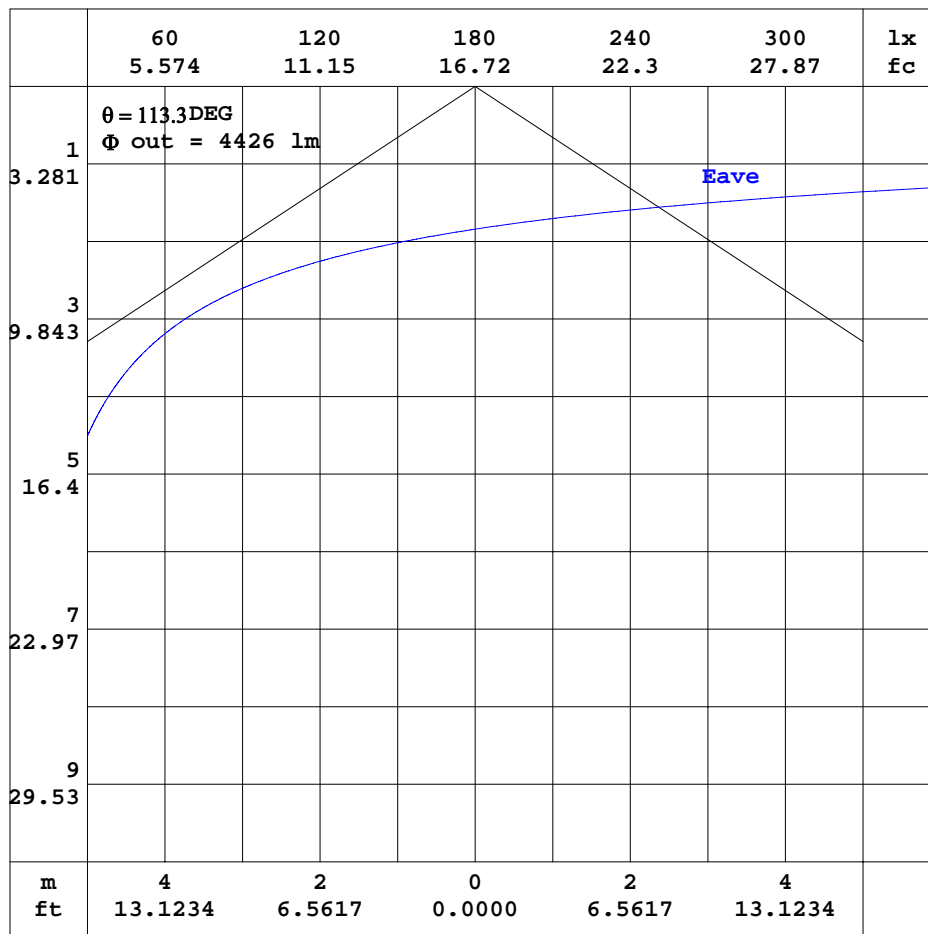


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



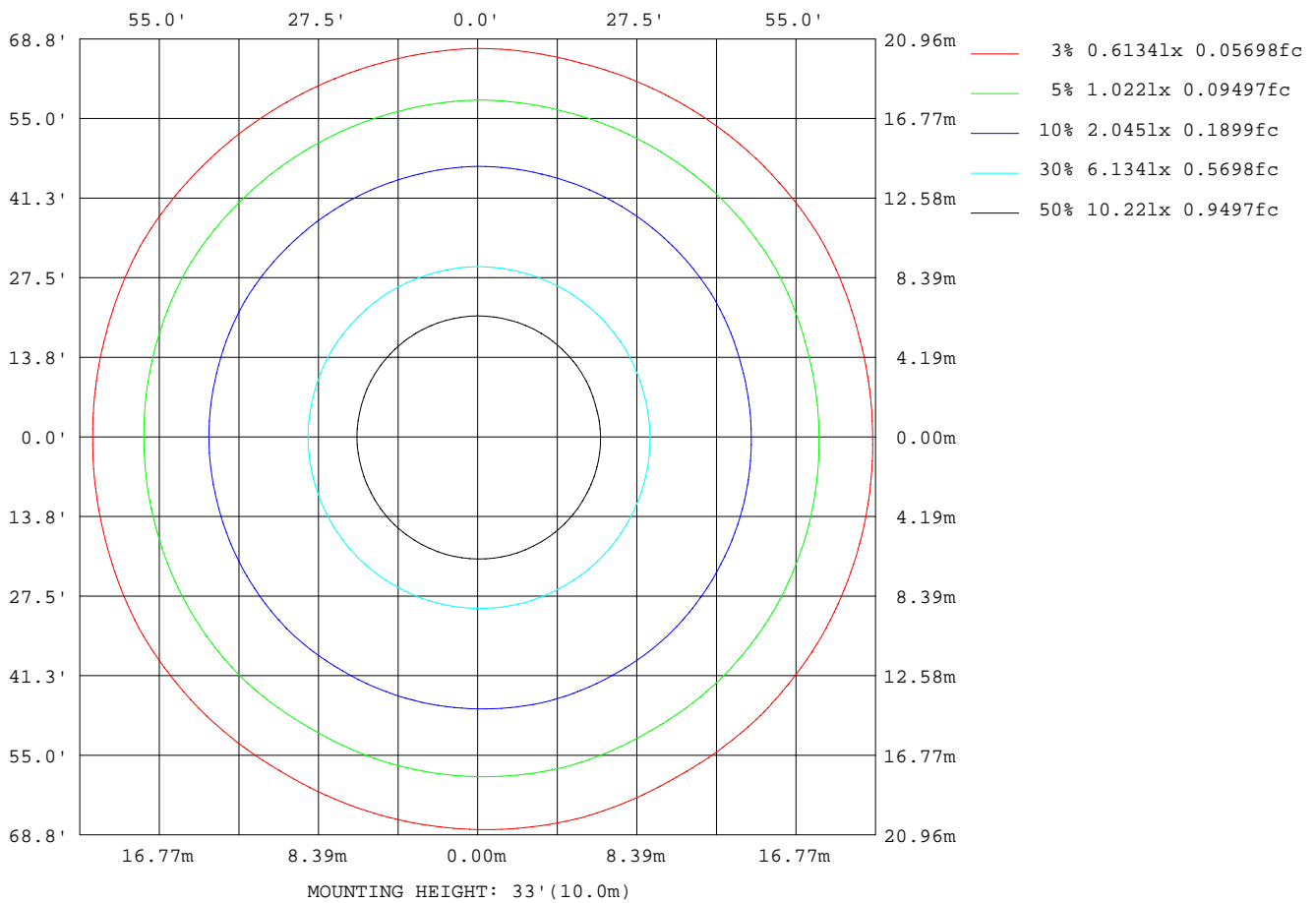
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.42V I:0.2562A P:57.997W PF:0.9868 Freq:49.99Hz Lamp Flux:5696.47x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLT23-0015-01	SUR.:3.14*0.325*0.325	Shielding Angle:

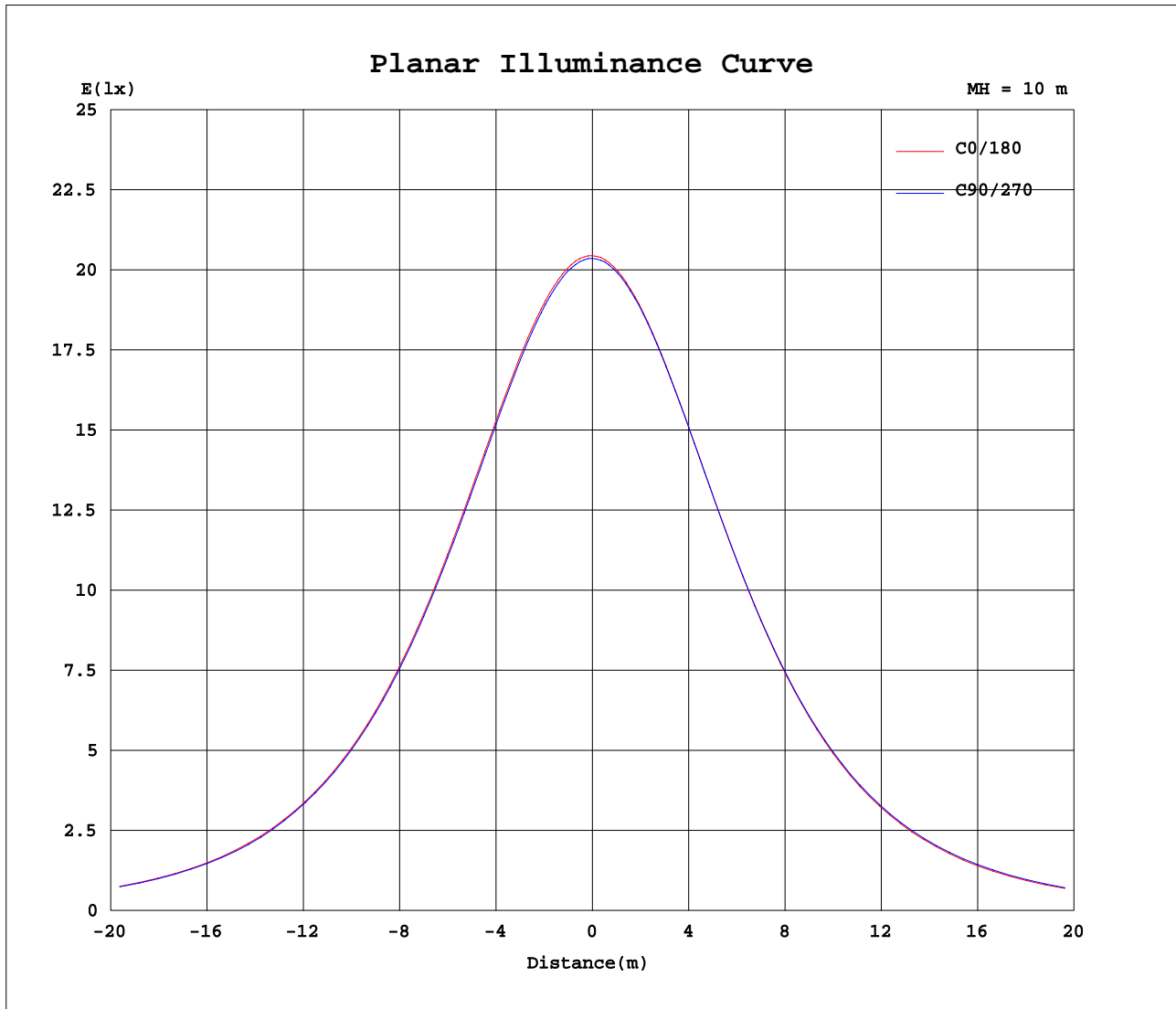
AvgL	cd/m2
L_0~180(65)av	4942
L_0~180(75)av	3143
L_0~180(85)av	510
L_90~270(65)av	4966
L_90~270(75)av	3086
L_90~270(85)av	612
L_45(65)av	5006
L_45(75)av	3101
L_45(85)av	512

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-29

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-29

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```