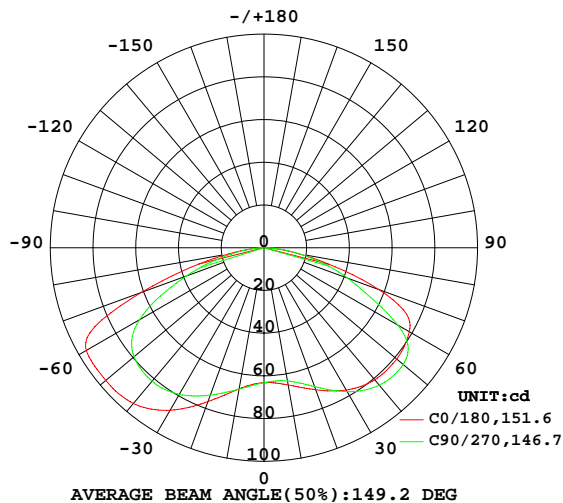


LUMINAIRE PHOTOMETRIC TEST REPORT

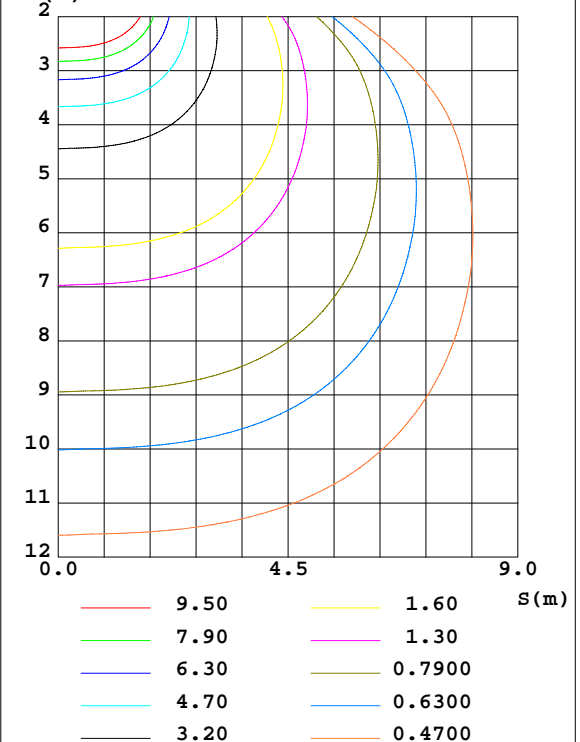
Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax(cd)	97.52	S/MH(C0/180)	2.11
NOMINAL POWER(W)	/	LOR(%)	100.0	S/MH(C90/270)	1.88
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	365.76	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	365.768	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	2.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	2.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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:

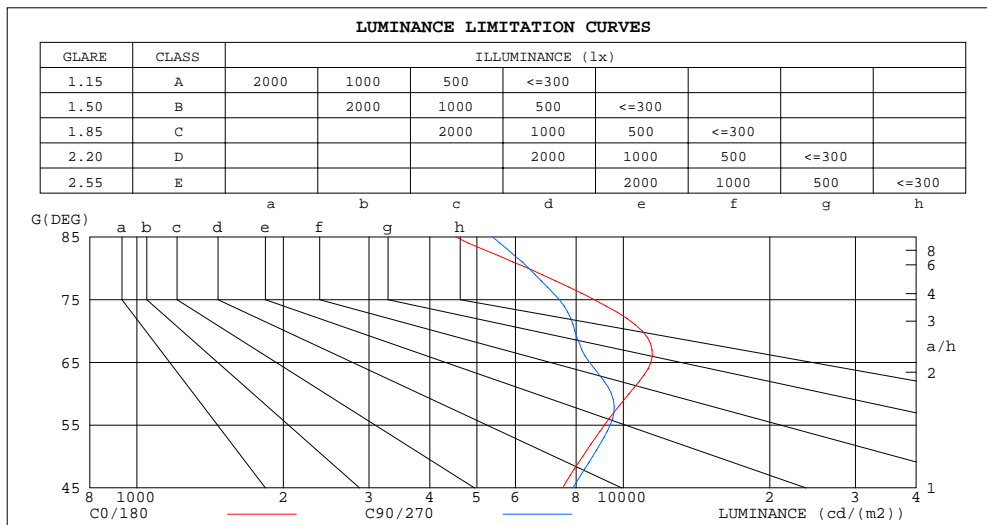
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	65.23	64.15	63.35	64.53	67.09	68.05	67.20	66.06	0- 10	6.153	6.153	1.68,1.68
20	70.72	70.51	69.19	71.73	76.62	76.88	73.39	71.02	10- 20	19.62	25.77	7.05,7.05
30	76.92	78.97	77.79	82.18	87.82	85.71	79.27	76.22	20- 30	35.58	61.35	16.8,16.8
40	80.68	84.75	83.97	90.98	95.16	90.47	81.55	78.65	30- 40	52.55	113.9	31.1,31.1
50	81.12	85.44	85.02	94.20	96.65	90.03	79.37	78.24	40- 50	66.84	180.7	49.4,49.4
60	78.58	81.84	72.28	91.84	96.06	89.32	67.21	76.81	50- 60	76.05	256.8	70.2,70.2
70	57.23	57.62	41.60	52.31	60.85	62.36	38.68	55.54	60- 70	70.18	327.0	89.4,89.4
80	16.93	14.63	16.97	13.20	16.87	11.65	13.65	12.04	70- 80	32.63	359.6	98.3,98.3
90	0.4725	0.4983	0.4467	0.3952	0.3436	0.3522	0.3179	0.4210	80- 90	6.167	365.8	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: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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:

LUMINANCE LIMITATION CURVES

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4525	5382
80	6372	6387
75	8704	7386
70	10936	7950
65	11392	8514
60	10272	9448
55	9142	9395
50	8248	8645
45	7504	7869

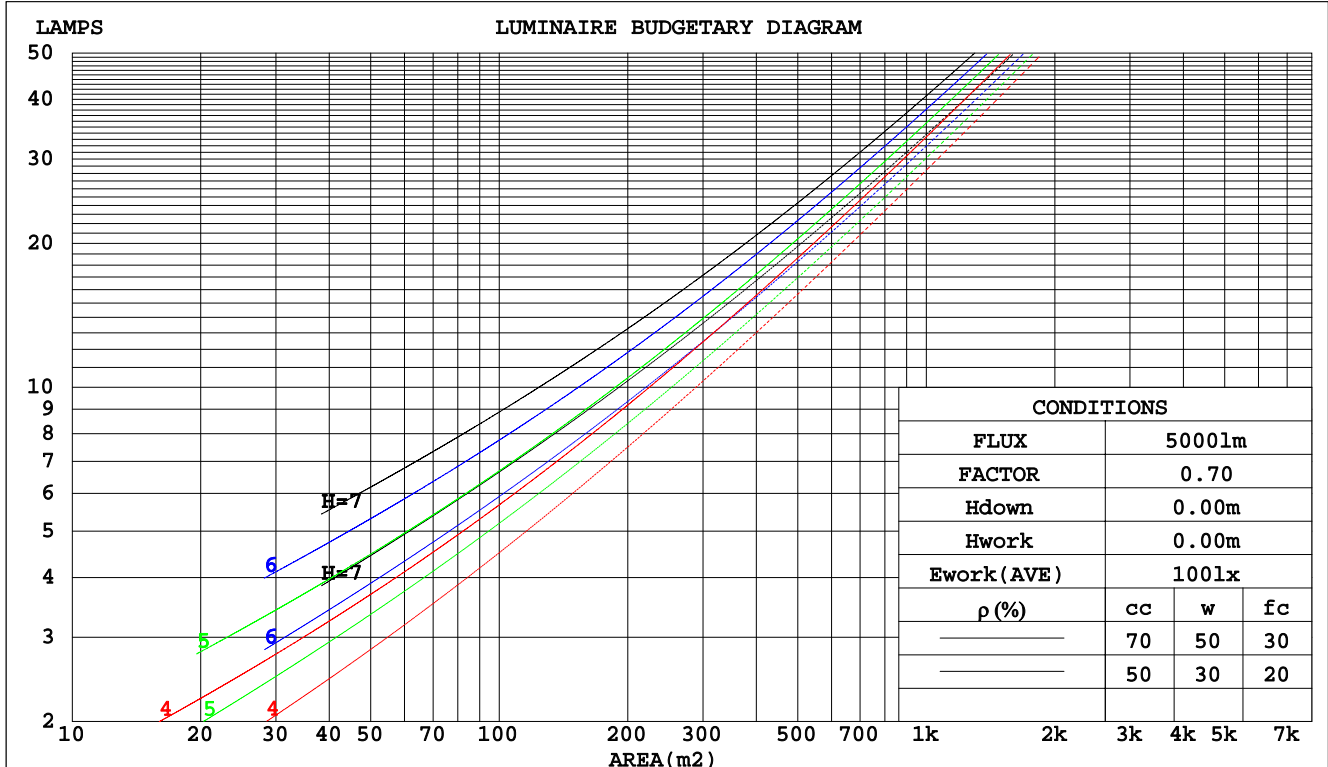
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	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	1.02	.97	.93	.90	.95	.91	.95	.92	.88	.91	.88	.86	.88	.85	.83	.81
2.0	.87	.79	.73	.85	.78	.72	.81	.75	.70	.78	.73	.68	.75	.70	.67	.64
3.0	.74	.65	.58	.73	.64	.57	.70	.62	.56	.67	.60	.55	.64	.59	.54	.52
4.0	.64	.55	.47	.63	.54	.47	.60	.52	.46	.58	.51	.45	.56	.50	.45	.42
5.0	.56	.46	.39	.55	.46	.39	.53	.45	.38	.51	.44	.38	.49	.43	.37	.35
6.0	.50	.40	.33	.49	.40	.33	.47	.39	.32	.45	.38	.32	.44	.37	.32	.30
7.0	.45	.35	.28	.44	.35	.28	.42	.34	.28	.41	.33	.28	.39	.33	.27	.25
8.0	.40	.31	.25	.40	.31	.25	.38	.30	.24	.37	.29	.24	.36	.29	.24	.22
9.0	.37	.28	.22	.36	.27	.22	.35	.27	.21	.34	.26	.21	.32	.26	.21	.19
10.0	.33	.25	.19	.33	.25	.19	.32	.24	.19	.31	.24	.19	.30	.23	.19	.17



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm									
NAME:				TYPE:			WEIGHT:		
SPEC.:				DIM.: 155*50			SERIAL No.:		
MFR.: NLP-003-01				SUR.:3.14*0.07*0.07			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	.345	.196	.062	.338	.193	.061	.324	.186	.059	.312	.180	.058	.301	.174	.056		
2.0	.327	.179	.055	.321	.177	.054	.309	.172	.053	.298	.167	.052	.287	.163	.051		
3.0	.302	.161	.048	.296	.159	.048	.286	.155	.047	.276	.151	.046	.267	.148	.046		
4.0	.277	.144	.042	.272	.142	.042	.263	.139	.042	.254	.136	.041	.245	.133	.041		
5.0	.255	.130	.038	.250	.128	.037	.242	.126	.037	.234	.123	.037	.226	.121	.036		
6.0	.235	.118	.034	.230	.116	.034	.223	.114	.033	.216	.112	.033	.209	.110	.033		
7.0	.217	.107	.030	.213	.106	.030	.206	.104	.030	.200	.103	.030	.194	.101	.030		
8.0	.201	.098	.028	.198	.098	.028	.192	.096	.027	.186	.094	.027	.181	.093	.027		
9.0	.188	.091	.025	.185	.090	.025	.179	.089	.025	.174	.087	.025	.169	.086	.025		
10.0	.176	.084	.023	.173	.084	.023	.168	.082	.023	.163	.081	.023	.159	.080	.023		

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	.183	.156	.132	.156	.134	.113	.107	.092	.078	.062	.053	.046	.020	.017	.015	
2.0	.177	.132	.094	.152	.113	.081	.104	.078	.057	.060	.046	.033	.019	.015	.011	
3.0	.171	.115	.070	.146	.099	.060	.100	.069	.042	.058	.040	.025	.019	.013	.008	
4.0	.164	.102	.054	.141	.088	.047	.097	.061	.033	.056	.036	.020	.018	.012	.006	
5.0	.157	.092	.044	.134	.079	.038	.093	.055	.027	.054	.032	.016	.017	.011	.005	
6.0	.149	.083	.036	.128	.072	.031	.089	.051	.022	.051	.030	.013	.017	.010	.004	
7.0	.142	.077	.031	.122	.066	.027	.085	.047	.019	.049	.027	.011	.016	.009	.004	
8.0	.135	.071	.027	.117	.062	.023	.081	.043	.017	.047	.025	.010	.015	.008	.003	
9.0	.129	.066	.024	.111	.057	.021	.077	.040	.015	.045	.024	.009	.015	.008	.003	
10.0	.123	.062	.021	.106	.054	.018	.073	.038	.013	.043	.022	.008	.014	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-11

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:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 155*50			SERIAL No.:			
MFR.: NLP-003-01					SUR.:3.14*0.07*0.07			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		21.7	23.4	21.9	23.6	23.8	21.4	23.1	21.7	23.3	23.5
3H		23.9	25.5	24.3	25.8	26.0	23.0	24.5	23.3	24.8	25.0
4H		24.5	26.0	24.9	26.3	26.6	23.5	25.0	23.8	25.2	25.5
6H		24.8	26.2	25.2	26.5	26.8	23.8	25.2	24.2	25.5	25.8
8H		24.9	26.2	25.2	26.5	26.8	23.9	25.3	24.3	25.6	25.9
12H		24.9	26.2	25.2	26.5	26.8	24.0	25.3	24.3	25.6	25.9
4H 2H		22.6	24.1	22.9	24.4	24.6	22.4	23.9	22.7	24.2	24.4
3H		24.9	26.2	25.3	26.5	26.8	24.1	25.4	24.4	25.7	26.0
4H		25.6	26.8	25.9	27.1	27.4	24.6	25.8	25.0	26.1	26.5
6H		25.9	27.0	26.3	27.3	27.7	25.0	26.1	25.4	26.4	26.8
8H		26.0	27.0	26.4	27.4	27.7	25.1	26.1	25.6	26.5	26.9
12H		26.0	26.9	26.5	27.3	27.7	25.2	26.1	25.7	26.5	26.9
8H 4H		25.7	26.7	26.2	27.1	27.5	24.9	25.9	25.3	26.3	26.6
6H		26.2	27.0	26.6	27.4	27.8	25.4	26.2	25.8	26.6	27.0
8H		26.3	27.0	26.8	27.5	27.9	25.6	26.3	26.0	26.7	27.2
12H		26.4	27.0	26.9	27.5	27.9	25.7	26.3	26.2	26.8	27.3
12H 4H		25.7	26.6	26.2	27.0	27.4	24.9	25.8	25.3	26.2	26.6
6H		26.2	26.9	26.6	27.3	27.8	25.4	26.1	25.9	26.6	27.0
8H		26.3	27.0	26.8	27.4	27.9	25.6	26.2	26.1	26.7	27.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.3 / - 0.4				
2.0H		+ 0.5 / - 0.7					+ 0.4 / - 0.8				

CIE Pub.117, 365.8 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = -3.5$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-01-11

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:

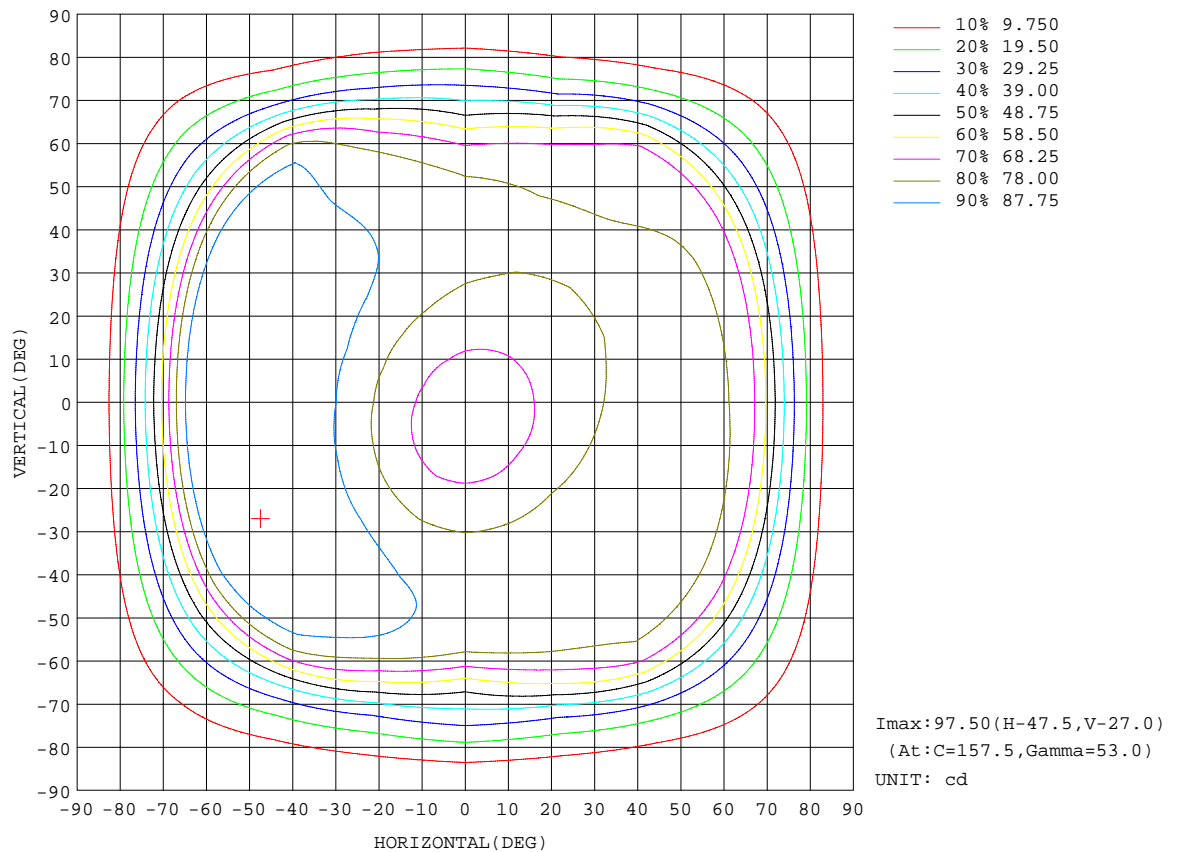
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:

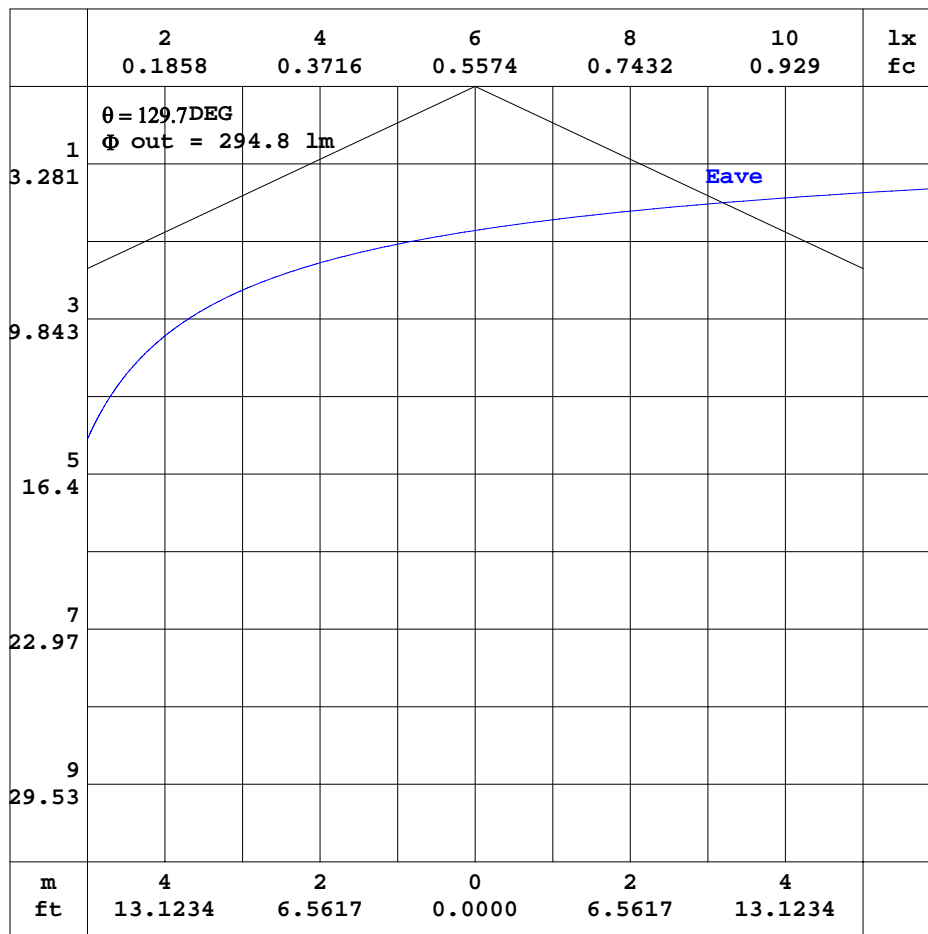


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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:

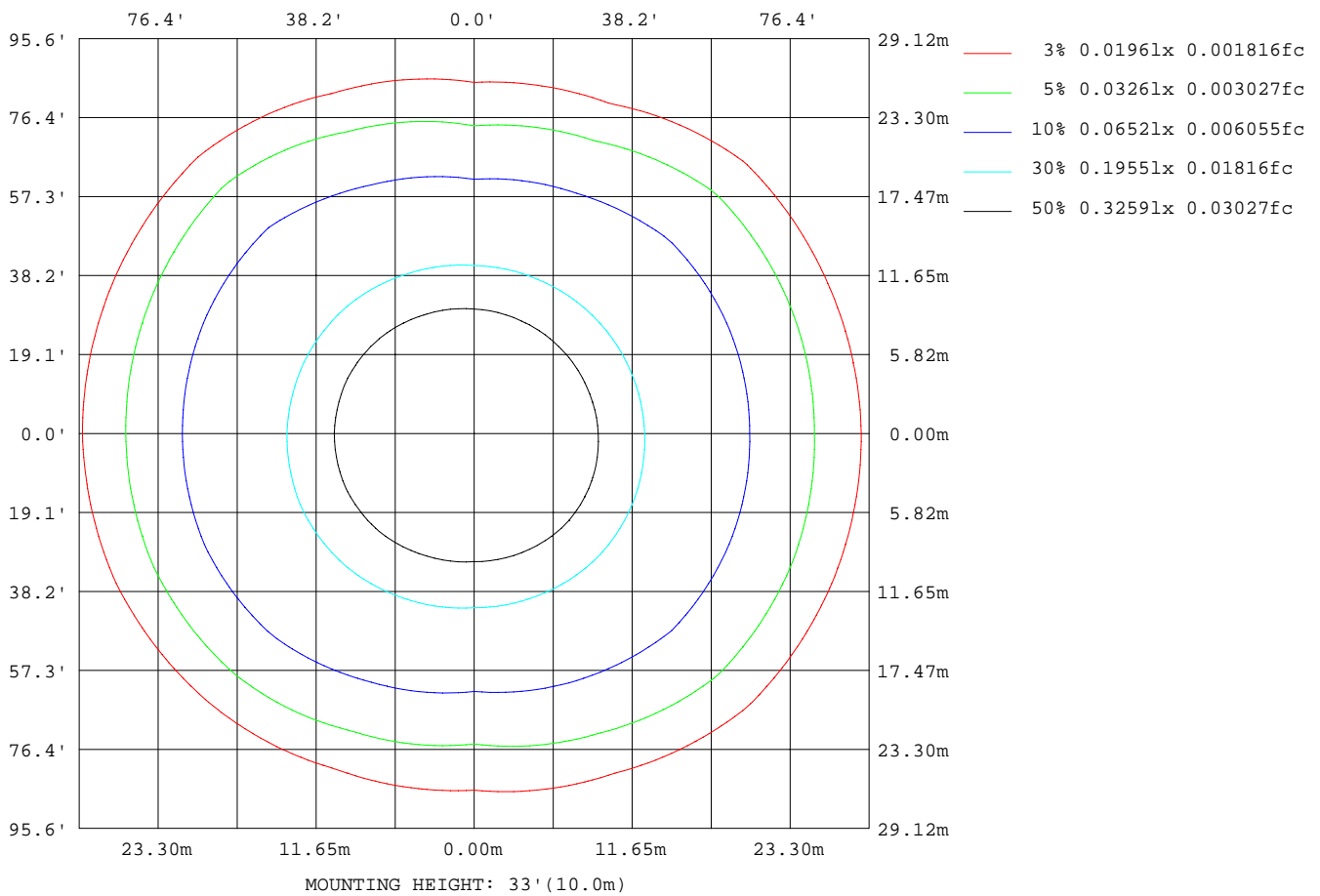
AAI CURVES

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:



ISOLUX DIAGRAM

Test:U:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-11

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:0V I:0A P:0W PF:0.0000 Freq:0Hz Lamp Flux:365.768x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 155*50	SERIAL No.:
MFR.: NLP-003-01	SUR.:3.14*0.07*0.07	Shielding Angle:

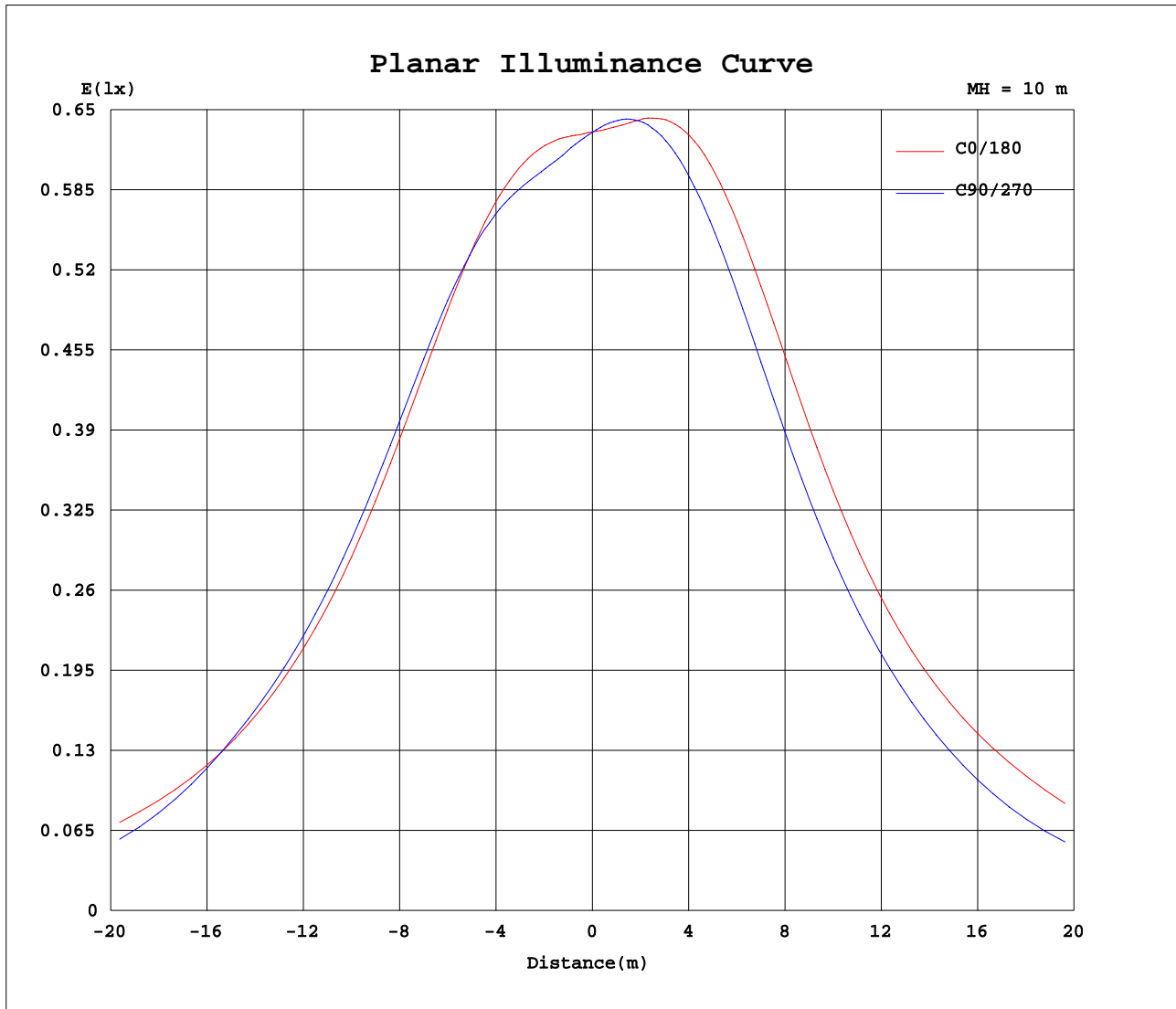
AvgL	cd/m2
L_0~180(65)av	12447
L_0~180(75)av	8834
L_0~180(85)av	4159
L_90~270(65)av	8401
L_90~270(75)av	6882
L_90~270(85)av	4560
L_45(65)av	12283
L_45(75)av	7396
L_45(85)av	2878

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-01-11

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: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-01-11

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:

```