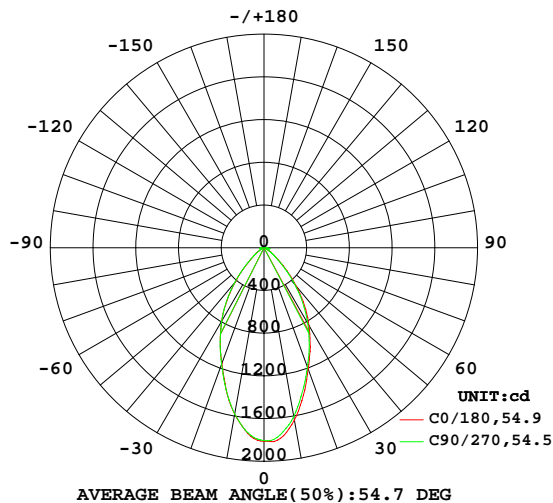


LUMINAIRE PHOTOMETRIC TEST REPORT

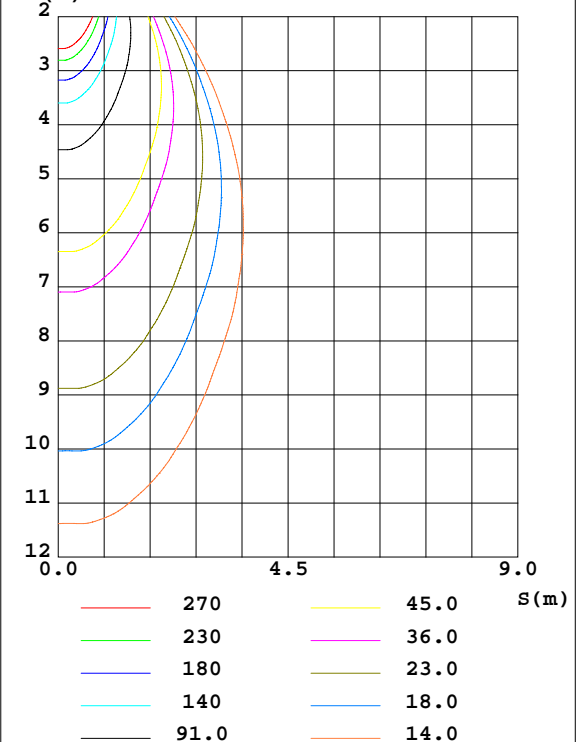
Test:U:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 18.47 lm/W			
MODEL		Imax(cd)	1817	S/MH(C0/180)	0.77
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	0.78
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	1777.6	η UP,DN(C0-180)	0.0,51.5
NOMINAL FLUX(lm)	1777.62	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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:

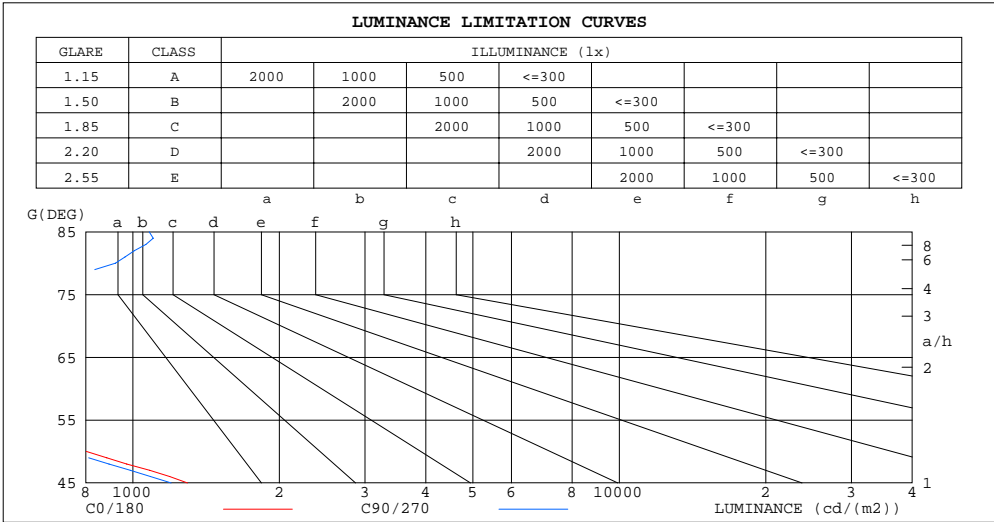
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	$\%lum, lamp$
10	1639	1606	1582	1581					0- 10	162.6	162.6	9.15,9.15
20	1209	1188	1156	1161					10- 20	388.0	550.6	31,31
30	843.9	821.4	791.9	793.2					20- 30	454.5	1005	56.5,56.5
40	471.4	447.8	421.4	430.7					30- 40	390.4	1396	78.5,78.5
50	170.9	157.0	142.3	146.4					40- 50	216.5	1612	90.7,90.7
60	51.39	42.33	38.71	38.53					50- 60	80.24	1692	95.2,95.2
70	30.19	29.50	27.03	25.55					60- 70	28.71	1721	96.8,96.8
80	38.48	53.01	25.15	41.07					70- 80	38.06	1759	99,99
90	0.8849	0.6873	1.065	0.9794					80- 90	18.57	1778	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: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	162	1080
80	668	921
75	419	499
70	266	260
65	215	188
60	310	255
55	510	459
50	802	737
45	1295	1199

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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:

```

WEC AND CCEC

Test:U:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm								
NAME:			TYPE:			WEIGHT:		
SPEC.:			DIM.: 650*40			SERIAL No.:		
MFR.: NLC2-0003-01			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	.217	.123	.039	.210	.120	.038	.197	.113	.036	.185	.107	.034	.174	.101	.033	
2.0	.204	.112	.034	.198	.109	.034	.187	.104	.032	.177	.099	.031	.168	.095	.030	
3.0	.192	.102	.031	.187	.100	.030	.177	.096	.029	.169	.092	.028	.161	.089	.028	
4.0	.181	.094	.028	.176	.092	.027	.168	.089	.027	.160	.086	.026	.153	.083	.025	
5.0	.170	.087	.025	.167	.086	.025	.159	.083	.024	.153	.081	.024	.147	.078	.024	
6.0	.161	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.140	.074	.022	
7.0	.153	.076	.021	.150	.075	.021	.144	.073	.021	.139	.071	.021	.134	.070	.020	
8.0	.145	.071	.020	.143	.070	.020	.138	.069	.020	.133	.067	.019	.128	.066	.019	
9.0	.138	.067	.019	.136	.066	.019	.131	.065	.018	.127	.064	.018	.123	.063	.018	
10.0	.132	.063	.018	.130	.063	.017	.126	.062	.017	.122	.060	.017	.118	.059	.017	

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	.174	.157	.142	.149	.135	.122	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.161	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.038	.017	.015	.013	
3.0	.149	.114	.085	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.140	.099	.069	.120	.086	.060	.083	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007	
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.118	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.015	.013	.008	.005	
8.0	.112	.066	.034	.097	.057	.030	.067	.040	.021	.039	.024	.012	.013	.008	.004	
9.0	.107	.061	.029	.092	.053	.026	.064	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.102	.056	.026	.088	.049	.023	.061	.034	.016	.036	.020	.010	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm										
NAME:			TYPE:			WEIGHT:				
SPEC.:			DIM.: 650*40			SERIAL No.:				
MFR.: NLC2-0003-01			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	9.5	10.6	9.7	10.8	10.9	9.2	10.3	9.5	10.5	10.7
3H	9.6	10.6	9.8	10.8	11.0	9.3	10.3	9.6	10.5	10.7
4H	9.8	10.8	10.1	11.0	11.3	9.7	10.7	10.0	10.9	11.2
6H	10.6	11.5	10.9	11.8	12.0	11.0	11.9	11.3	12.2	12.4
8H	11.0	11.9	11.4	12.2	12.4	11.7	12.6	12.1	12.9	13.1
12H	11.1	12.0	11.5	12.3	12.5	12.4	13.2	12.7	13.5	13.7
4H 2H	9.3	10.3	9.6	10.5	10.8	9.1	10.1	9.4	10.3	10.5
3H	9.6	10.4	9.9	10.7	11.0	9.3	10.2	9.7	10.4	10.7
4H	10.1	10.9	10.5	11.2	11.5	10.1	10.9	10.5	11.2	11.5
6H	11.3	12.0	11.7	12.3	12.7	11.9	12.6	12.3	12.9	13.3
8H	11.9	12.6	12.3	12.9	13.3	12.8	13.4	13.2	13.8	14.2
12H	12.1	12.7	12.5	13.0	13.4	13.6	14.2	14.0	14.5	14.9
8H 4H	10.5	11.1	10.9	11.5	11.8	10.5	11.1	10.9	11.5	11.8
6H	12.1	12.6	12.5	13.0	13.4	12.6	13.2	13.1	13.6	14.0
8H	12.9	13.3	13.3	13.7	14.2	13.7	14.2	14.2	14.6	15.0
12H	13.1	13.5	13.6	13.9	14.4	14.6	15.0	15.1	15.5	15.9
12H 4H	10.7	11.2	11.1	11.6	12.0	10.6	11.2	11.0	11.6	12.0
6H	12.4	12.8	12.8	13.2	13.7	12.9	13.3	13.3	13.7	14.2
8H	13.2	13.6	13.7	14.0	14.5	14.0	14.4	14.5	14.8	15.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.7 / - 0.8					+ 0.6 / - 0.7				
1.5H	+ 1.2 / - 0.8					+ 0.9 / - 0.5				
2.0H	+ 1.7 / - 0.8					+ 1.1 / - 0.4				

CIE Pub.117, 1778 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 2.0$)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-05-31

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:

UTILIZATION FACTORS TABLE

Test:U:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:

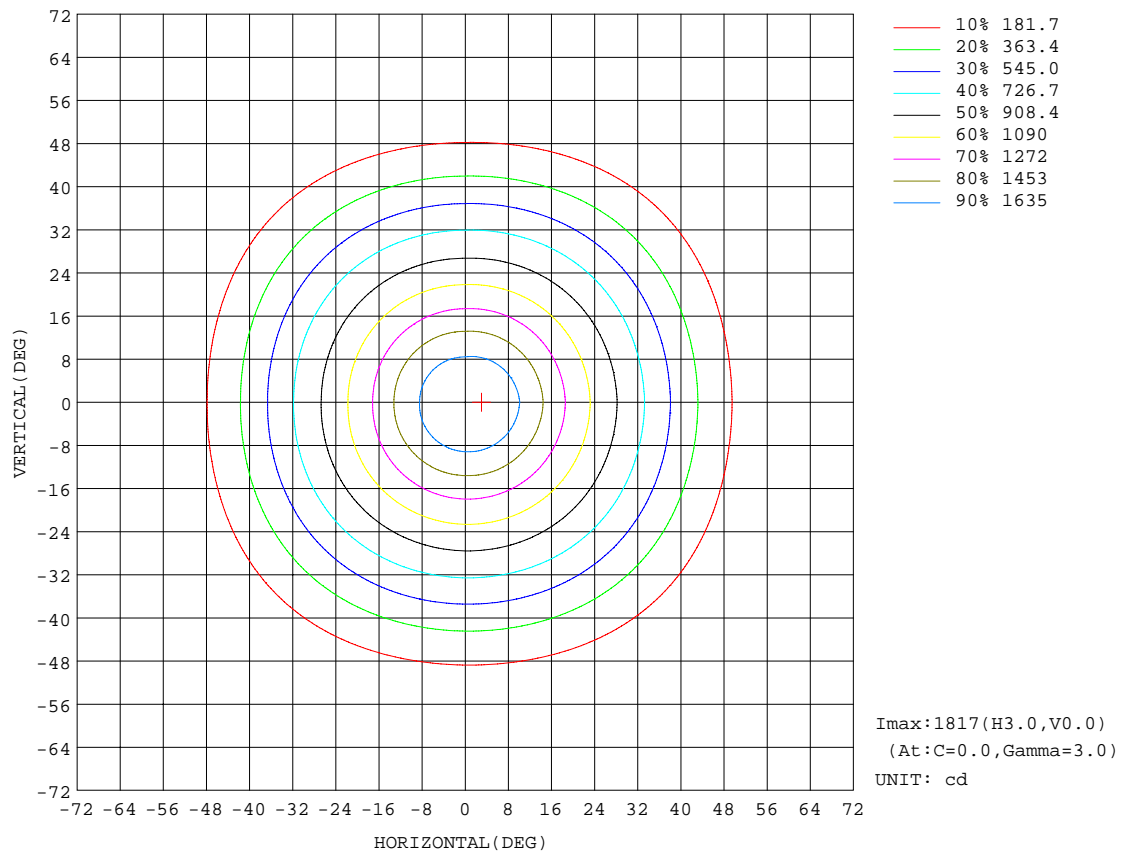
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	78	70	65	77	70	65	77	69	65	61
0.80	87	79	74	86	79	74	84	78	74	69
1.00	93	85	81	92	85	81	90	85	80	75
1.25	98	91	87	96	90	86	94	89	85	80
1.50	101	95	91	100	94	90	97	93	89	84
2.00	105	100	95	103	98	95	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	89
3.00	109	105	101	107	103	100	104	100	98	91
4.00	111	108	105	109	106	103	106	103	101	93
5.00	113	110	107	111	108	106	107	104	103	94
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:

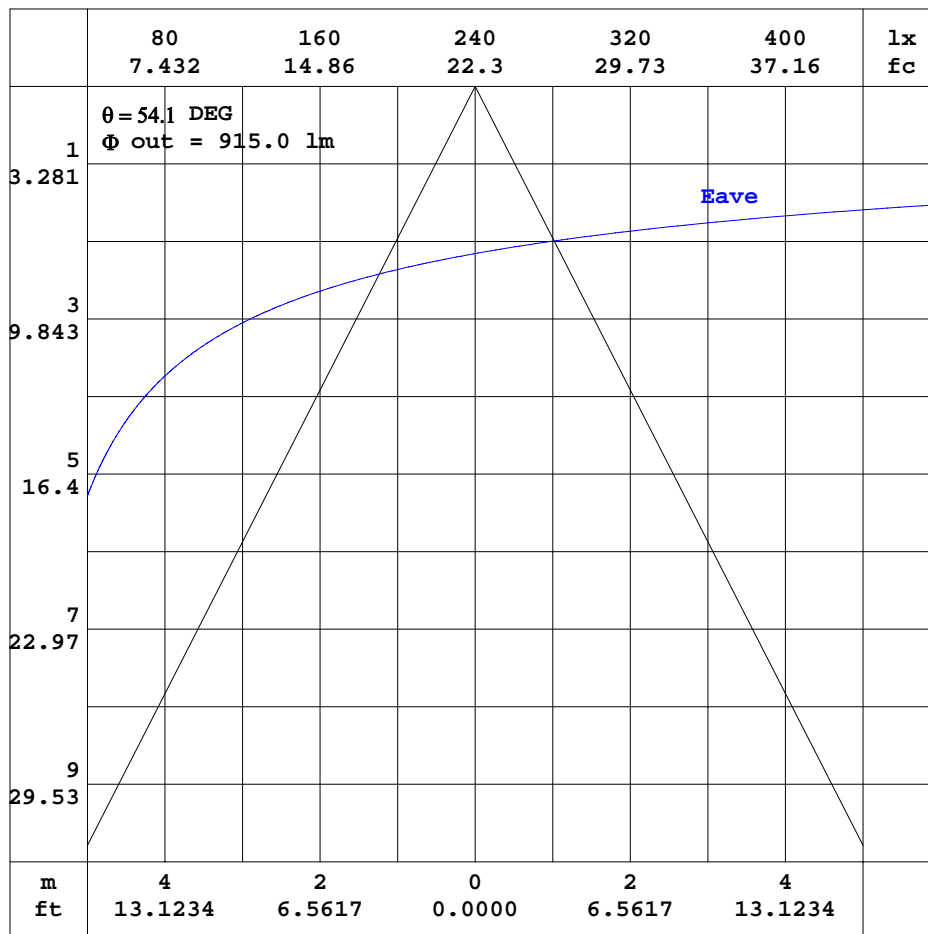


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:



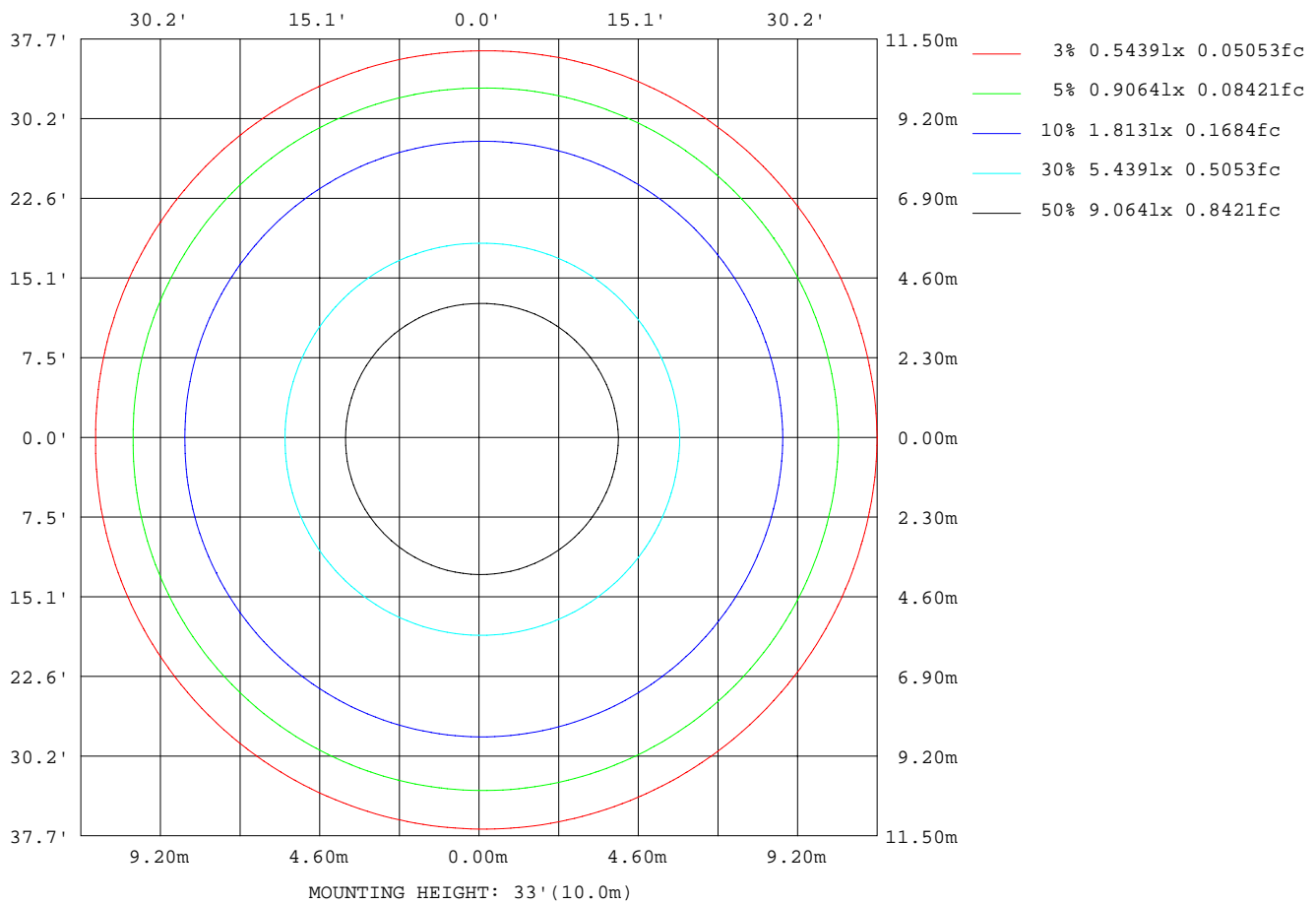
Note: The Curves indicate the illuminated area and the average illuminance when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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:229.64V I:0.4256A P:96.246W PF:0.9847 Freq:49.99Hz Lamp Flux:1777.62x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 650*40	SERIAL No.:
MFR.: NLC2-0003-01	SUR.:3.14*0.325*0.325	Shielding Angle:

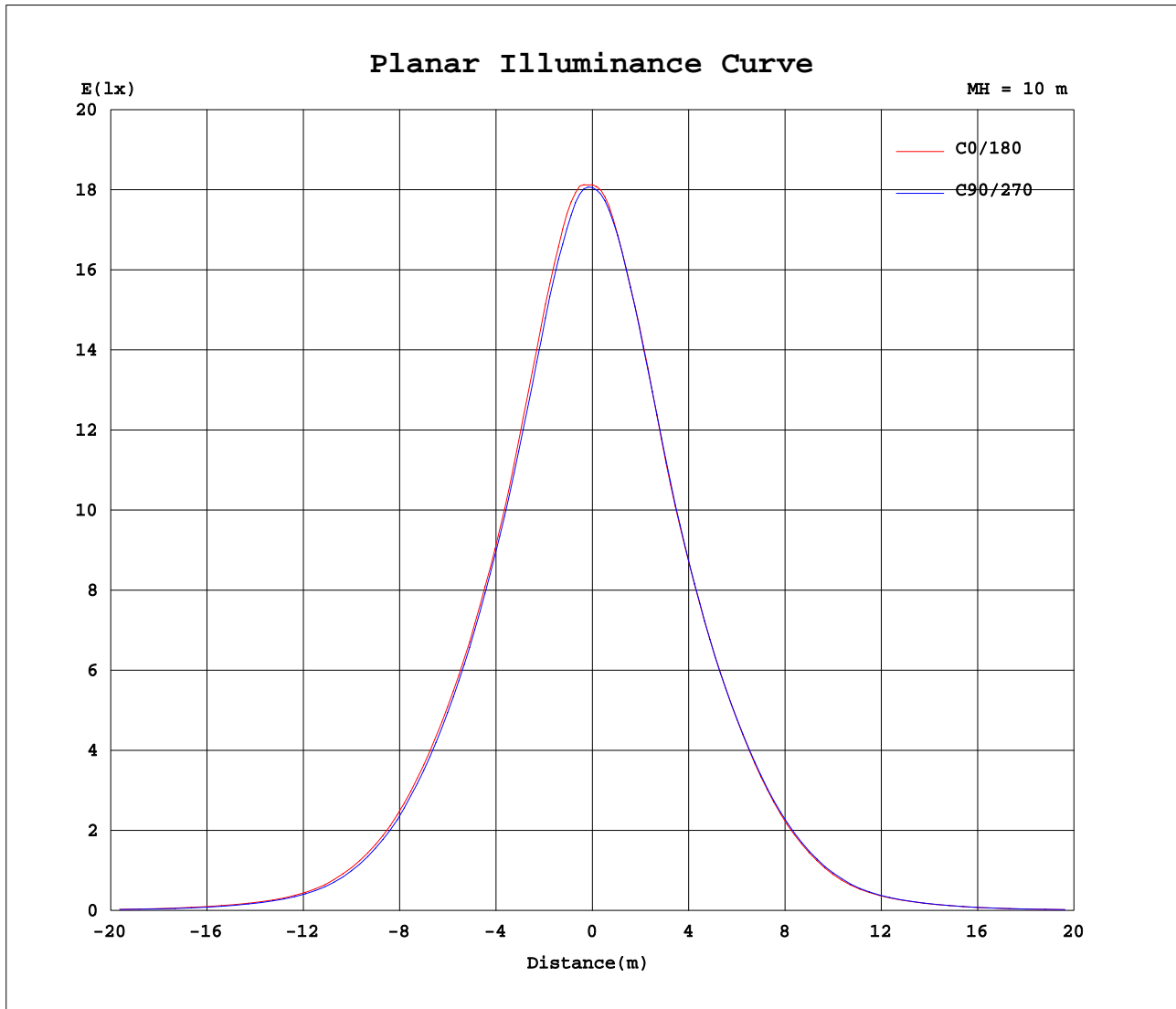
AvgL	cd/m2
L_0~180(65)av	193
L_0~180(75)av	395
L_0~180(85)av	125
L_90~270(65)av	177
L_90~270(75)av	464
L_90~270(85)av	1009
L_45(65)av	182
L_45(75)av	437
L_45(85)av	675

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2024-05-31

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: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2024-05-31

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:

```