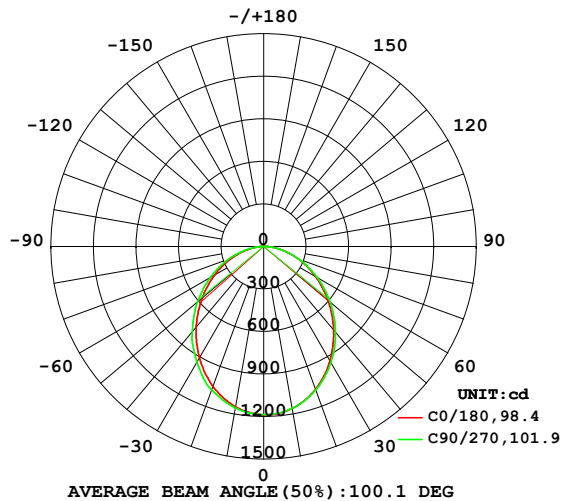


LUMINAIRE PHOTOMETRIC TEST REPORT

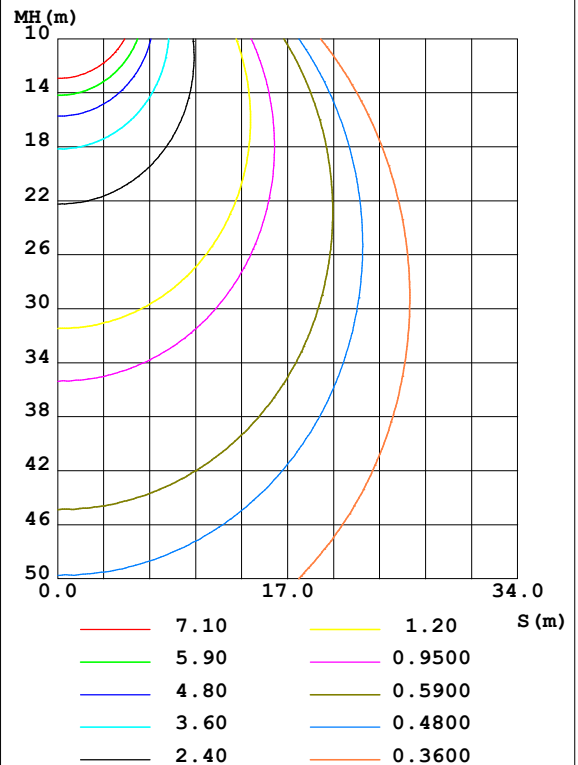
Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31 (12SUGR-DDC40K85C) S	TYPE: LINEAR LIGHT	WEIGHT:
SPEC.: 4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.: 1219*48	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 99.57 lm/W			
MODEL	L5070C	I _{max} (cd)	1189	S/MH (C0/180)	1.15
NOMINAL POWER (W)	30.34	LOR (%)	100.0	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2988.0	η UP, DN (C0-180)	0.0, 50.5
NOMINAL FLUX (lm)	2988.03	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	220	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: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2023-09-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.450m [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	1160	1163	1159	1151	1148	1151	1157	1155	0- 10	111.8	111.8	3.74,3.74
20	1072	1080	1077	1061	1050	1057	1076	1069	10- 20	315.0	426.7	14.3,14.3
30	934.0	948.3	948.4	926.5	907.8	928.8	942.8	943.9	20- 30	463.0	889.7	29.8,29.8
40	767.8	786.5	788.3	764.5	741.1	758.2	783.4	773.6	30- 40	534.5	1424	47.7,47.7
50	593.2	611.4	612.7	589.9	566.9	585.1	608.3	599.7	40- 50	527.6	1952	65.3,65.3
60	421.4	435.4	435.3	417.1	397.2	412.5	432.4	425.5	50- 60	454.7	2407	80.5,80.5
70	260.4	269.4	264.6	254.4	238.8	249.5	262.3	261.1	60- 70	335.1	2742	91.8,91.8
80	113.7	122.1	111.4	110.6	95.34	106.5	108.8	116.1	70- 80	191.9	2934	98.2,98.2
90	4.237	5.258	1.223	1.276	0.9880	1.112	1.035	2.258	80- 90	54.49	2988	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		

Conical surface Flux(90deg): 1693.3 lm

%lum = 56.7%

%lamp = 56.7%

Conical surface Flux(120deg): 2406.5 lm

%lum = 80.5%

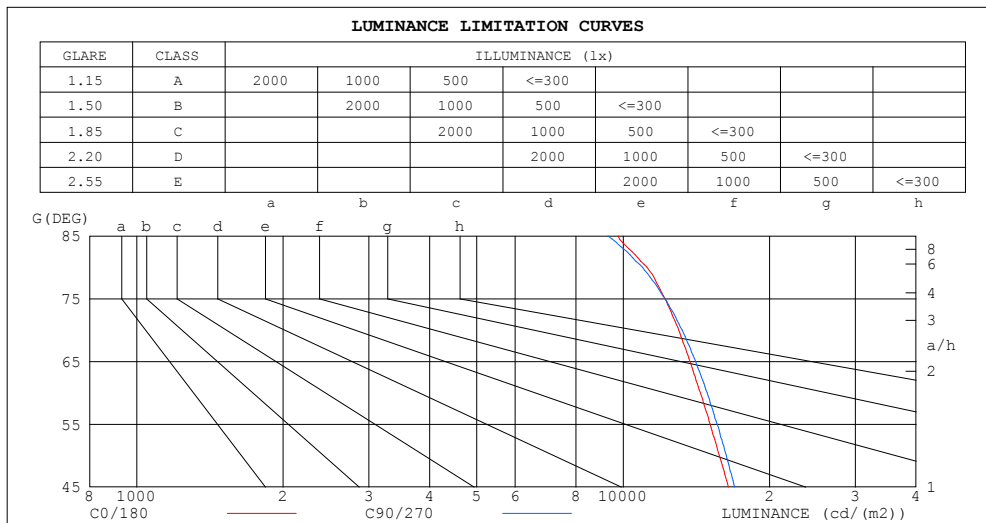
%lamp = 80.5%

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:KEVINLI
 Test Date:2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31 (12SUGR-DDC40K85C) S	TYPE: LINEAR LIGHT	WEIGHT:
SPEC.: 4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.: 1219*48	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	9762	9306
80	11192	10966
75	12189	12195
70	13015	13226
65	13713	14089
60	14408	14882
55	15090	15589
50	15774	16294
45	16456	16958

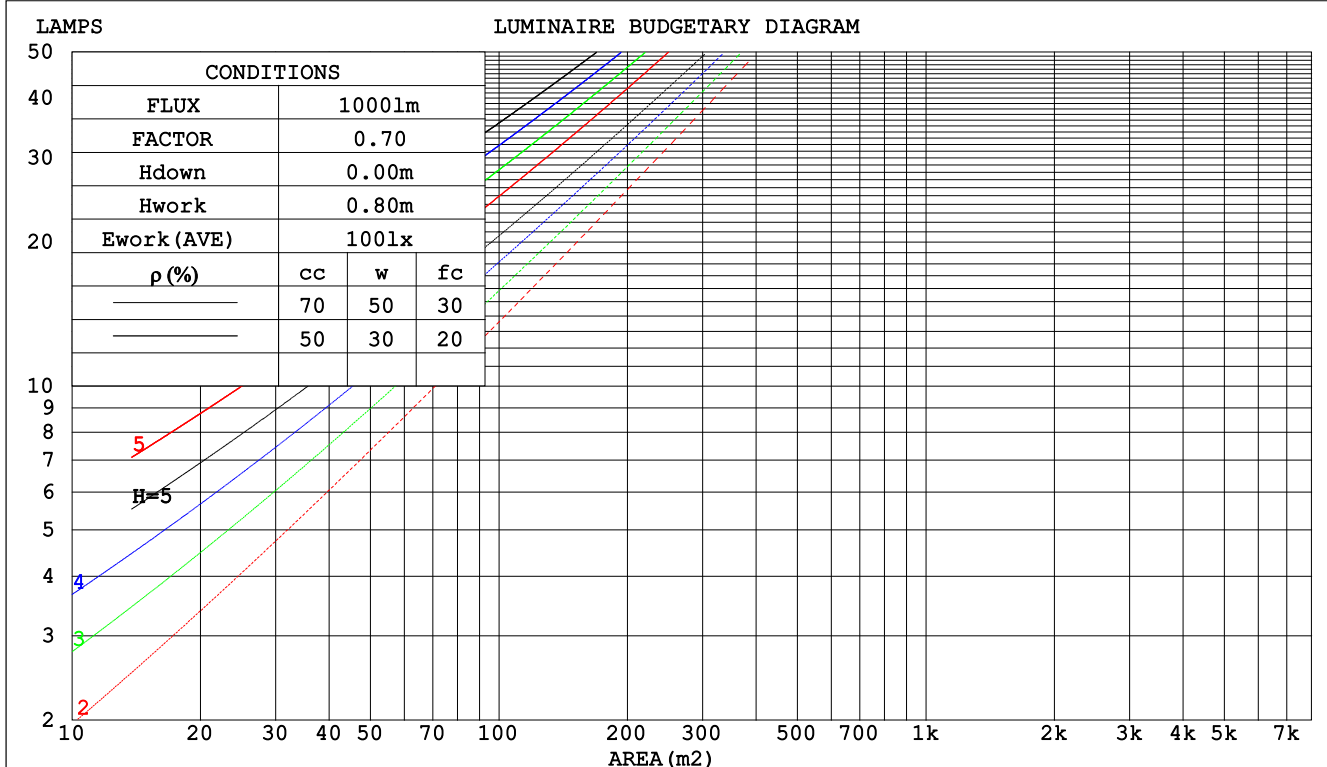
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31(12SUGR-DDC40K85C) S	TYPE:LINEAR LIGHT	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.:1219*48	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	1.04	1.00	.96	1.02	.98	.95	.98	.95	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.85	.79	.89	.83	.78	.86	.81	.76	.83	.78	.75	.80	.76	.73	.71
3.0	.81	.73	.66	.79	.72	.66	.76	.70	.64	.73	.68	.63	.71	.66	.62	.60
4.0	.72	.63	.56	.70	.62	.56	.68	.61	.55	.65	.59	.54	.63	.58	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.47	.57	.51	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.30	.41	.35	.30	.40	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.33	.28	.38	.32	.28	.38	.32	.27	.26



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2023-09-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31(12SUGR-DDC40K85C)S	TYPE:LINEAR LIGHT	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.:1219*48	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	.301	.171	.054	.294	.168	.053	.281	.161	.051	.268	.155	.050	.257	.149	.048		
2.0	.283	.155	.048	.277	.153	.047	.266	.148	.046	.255	.143	.045	.245	.139	.044		
3.0	.263	.140	.042	.257	.138	.041	.247	.134	.041	.237	.130	.040	.229	.127	.039		
4.0	.243	.126	.037	.238	.125	.037	.229	.121	.036	.221	.118	.036	.213	.116	.035		
5.0	.225	.115	.033	.221	.113	.033	.213	.111	.033	.205	.108	.032	.198	.106	.032		
6.0	.209	.105	.030	.205	.104	.030	.198	.101	.030	.191	.099	.029	.185	.097	.029		
7.0	.195	.096	.027	.191	.095	.027	.185	.094	.027	.179	.092	.027	.173	.090	.026		
8.0	.182	.089	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	.163	.084	.024		
9.0	.171	.083	.023	.168	.082	.023	.163	.081	.023	.158	.079	.023	.154	.078	.023		
10.0	.161	.077	.021	.158	.077	.021	.154	.075	.021	.149	.074	.021	.145	.073	.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	.180	.156	.135	.154	.134	.116	.105	.092	.080	.061	.053	.047	.019	.017	.015	
2.0	.171	.132	.099	.147	.114	.086	.100	.079	.060	.058	.046	.035	.019	.015	.011	
3.0	.163	.114	.075	.140	.099	.065	.096	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.059	.133	.087	.051	.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	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.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	.026	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2023-09-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm										
NAME: L5070C-NW31(12SUGR-DDC40K85C)S					TYPE:LINEAR LIGHT			WEIGHT:		
SPEC.:4FT					DIM.: 4FT			SERIAL No.:		
MFR.: BLUEVISION					SUR.:1219*48			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	18.4	19.9	18.7	20.1	20.3	18.5	20.0	18.8	20.2	20.4
3H	19.8	21.2	20.1	21.4	21.7	19.9	21.3	20.2	21.5	21.8
4H	20.4	21.7	20.7	22.0	22.2	20.5	21.8	20.8	22.1	22.3
6H	20.8	22.1	21.2	22.3	22.6	20.9	22.2	21.3	22.4	22.7
8H	21.0	22.2	21.3	22.5	22.7	21.1	22.2	21.4	22.5	22.8
12H	21.1	22.2	21.4	22.5	22.8	21.1	22.3	21.5	22.6	22.9
4H 2H	19.0	20.3	19.3	20.6	20.8	19.1	20.4	19.4	20.7	20.9
3H	20.6	21.8	21.0	22.1	22.4	20.7	21.9	21.1	22.1	22.5
4H	21.3	22.4	21.7	22.7	23.0	21.4	22.5	21.8	22.8	23.1
6H	21.9	22.8	22.3	23.2	23.6	22.0	22.9	22.4	23.2	23.6
8H	22.1	23.0	22.5	23.3	23.7	22.1	23.0	22.6	23.4	23.8
12H	22.2	23.0	22.7	23.4	23.8	22.3	23.1	22.7	23.4	23.9
8H 4H	21.6	22.5	22.0	22.9	23.2	21.7	22.6	22.1	22.9	23.3
6H	22.4	23.1	22.8	23.5	23.9	22.4	23.1	22.8	23.5	23.9
8H	22.7	23.3	23.1	23.7	24.2	22.7	23.3	23.1	23.7	24.2
12H	22.9	23.4	23.4	23.9	24.3	22.9	23.4	23.4	23.9	24.4
12H 4H	21.6	22.4	22.1	22.8	23.2	21.7	22.5	22.1	22.9	23.3
6H	22.4	23.1	22.9	23.5	23.9	22.5	23.1	22.9	23.5	24.0
8H	22.8	23.3	23.3	23.8	24.2	22.8	23.3	23.3	23.8	24.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.2				

CIE Pub.117, 2988 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.8)
Area: 0.0585 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

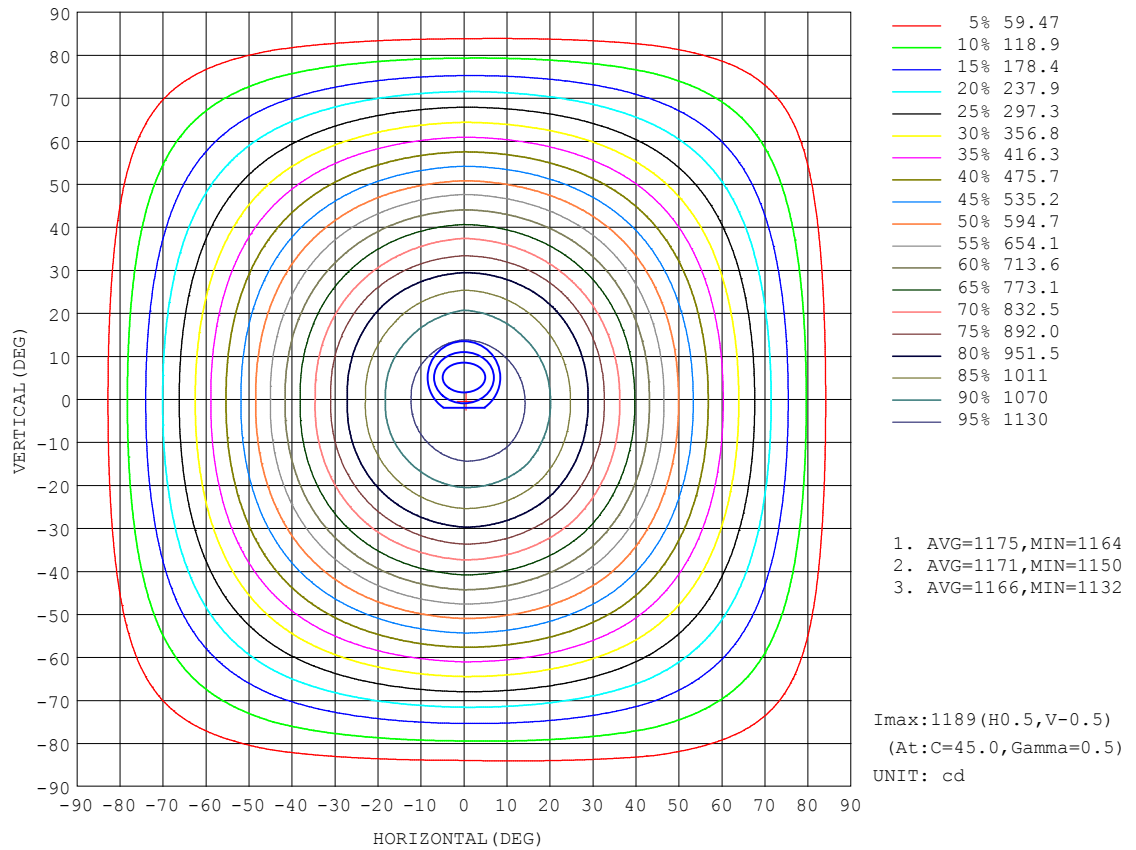
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31 (12SUGR-DDC40K85C) S	TYPE: LINEAR LIGHT	WEIGHT:
SPEC.: 4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.: 1219*48	Shielding Angle:

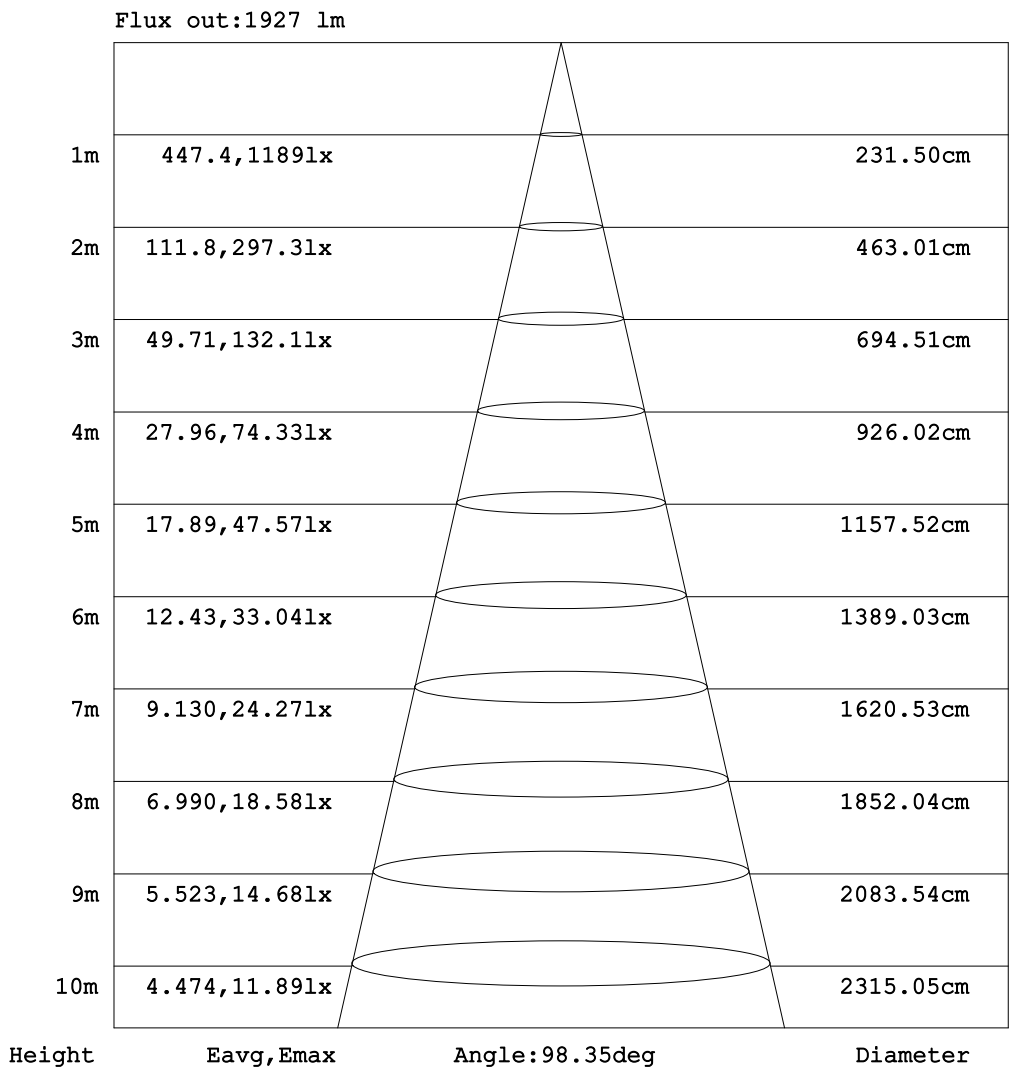


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31(12SUGR-DDC40K85C)S	TYPE:LINEAR LIGHT	WEIGHT:
SPEC.:4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.:1219*48	Shielding Angle:



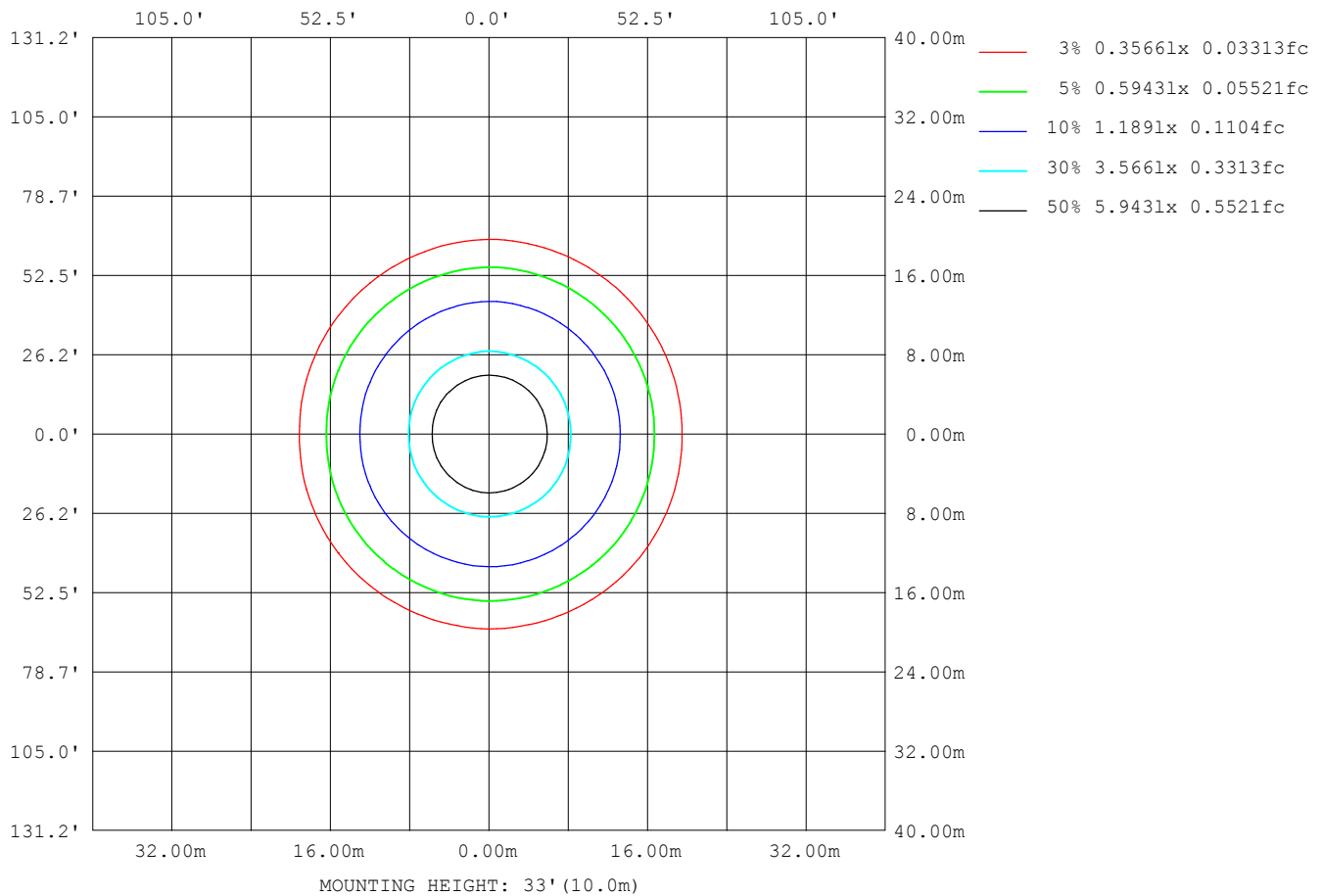
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:KEVINLI
Test Date:2023-09-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31 (12SUGR-DDC40K85C) S	TYPE: LINEAR LIGHT	WEIGHT:
SPEC.: 4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.: 1219*48	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: KEVINLI
 Test Date: 2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:220.40V I:0.1387A P:30.009W PF:0.9815 Freq:50.01Hz Lamp Flux:2988.03x1 lm		
NAME: L5070C-NW31 (12SUGR-DDC40K85C) S	TYPE: LINEAR LIGHT	WEIGHT:
SPEC.: 4FT	DIM.: 4FT	SERIAL No.:
MFR.: BLUEVISION	SUR.: 1219*48	Shielding Angle:

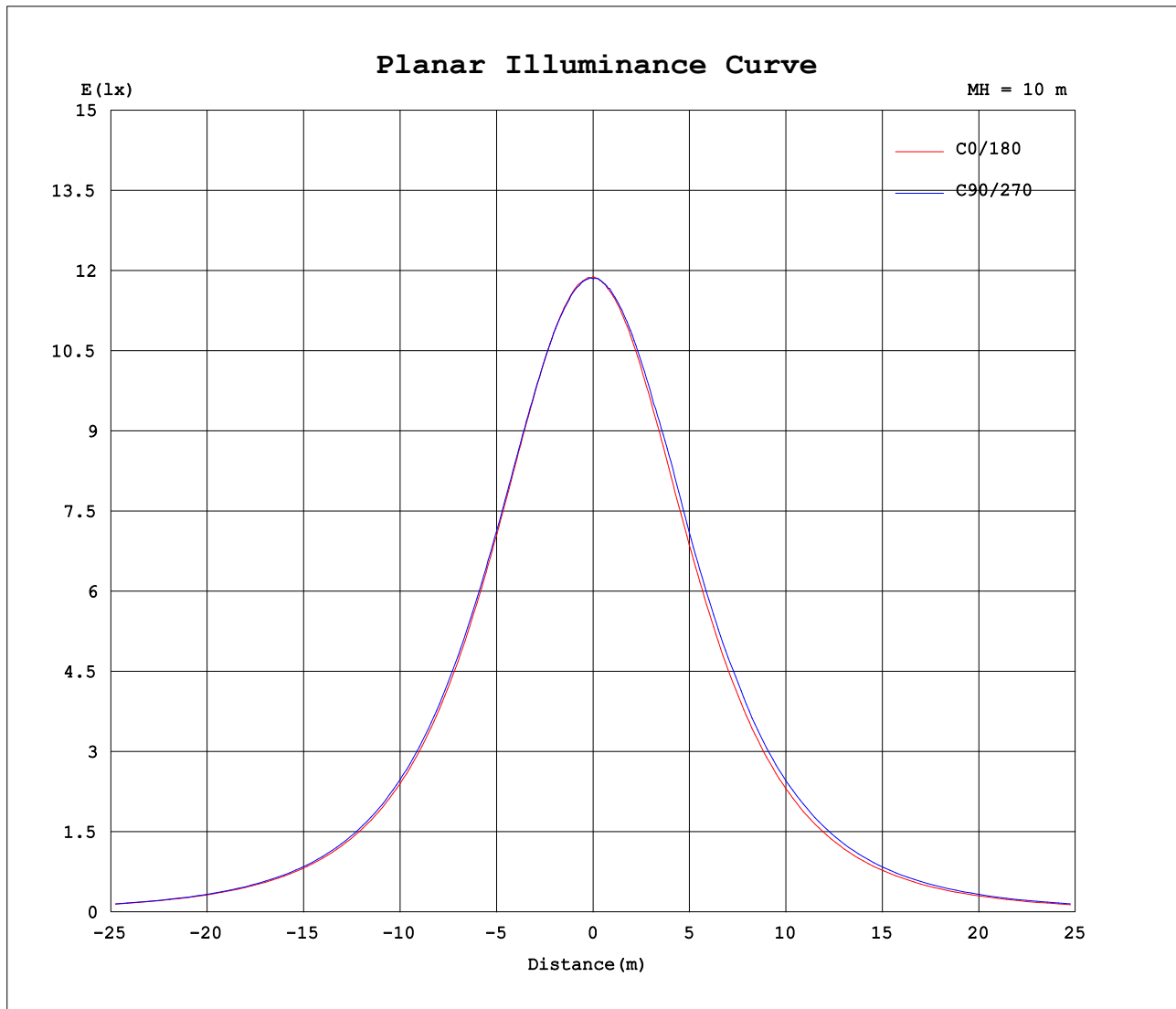
AvgL	cd/m2
L_0~180 (65) av	13247
L_0~180 (75) av	11513
L_0~180 (85) av	8316
L_90~270 (65) av	14047
L_90~270 (75) av	12100
L_90~270 (85) av	9071
L_45 (65) av	13700
L_45 (75) av	12081
L_45 (85) av	9819

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2023-09-05

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: KEVINLI
Test Date: 2023-09-05

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.353
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```