



Light Output Ratio:	80.9%	
Luminaire Power:	48.72 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.20	fine grid method.

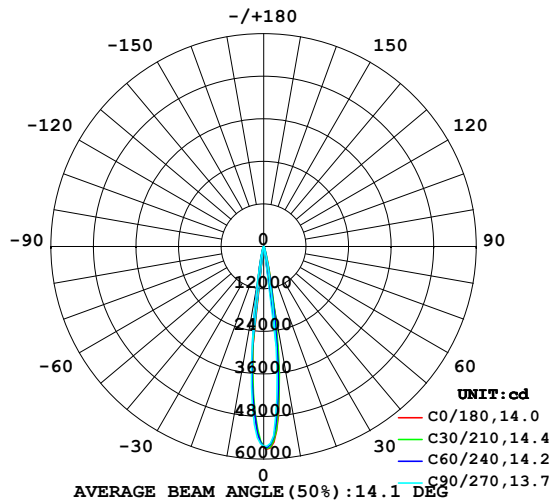
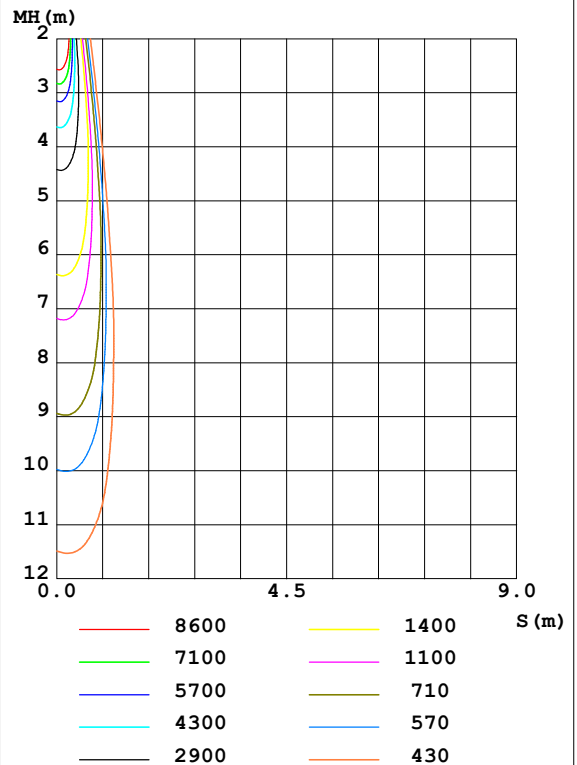
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-08-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity: 65.0%  
 Test Distance: 10.214m [K=1.0000]  
 Remarks:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:34.804V I:1.3999A P:48.722W PF:1.0000 Freq:0Hz Lamp Flux:5880x1 lm		
NAME: LYE-8053A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2300203
MFR.: Cosine	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 97.68 lm/W
MODEL	CXB1512	I <sub>max</sub> (cd)	57165	S/MH (C0/180)	0.21	
NOMINAL POWER (W)	49	LOR (%)	80.9	S/MH (C90/270)	0.22	
RATED VOLTAGE (V)	35	TOTAL FLUX (lm)	4759.0	η UP, DN (C0-180)	0.0, 42.8	
NOMINAL FLUX (lm)	5880	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 38.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	35	η down (%)	80.9	CIBSE SHR MAX	0.20	

**LUMINOUS INTENSITY DISTRIBUTION DIAGRAM**

**C0 PLANE ISOLUX DIAGRAM (UNIT:lx)**


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2023-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity: 65.0%  
Test Distance: 10.214m [K=1.0000]  
Remarks:

**ZONAL FLUX DIAGRAM**
**ZONAL FLUX DIAGRAM:**

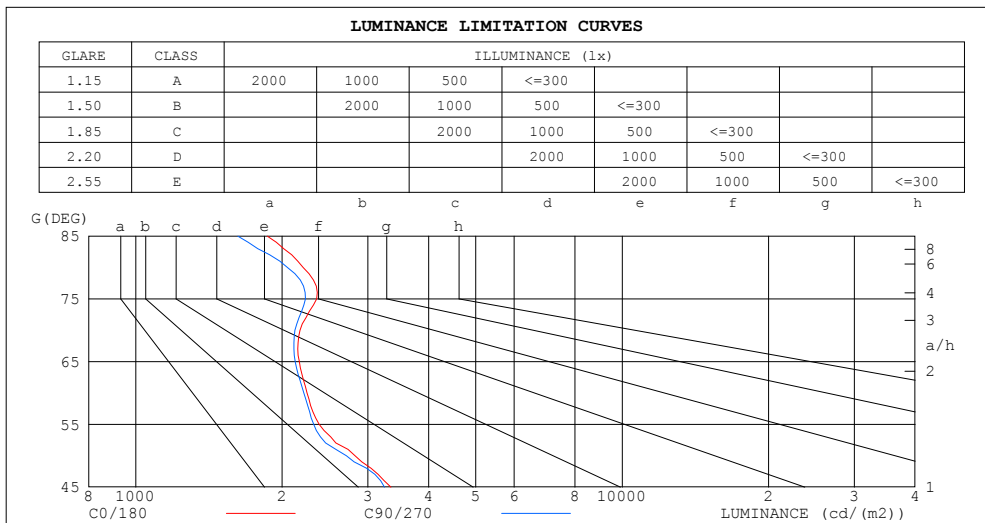
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1610	1594	1186	914.5	912.1	991.2	1001	1189	0- 10	2889	2889	60.7,49.1
20	145.2	143.2	128.0	114.1	109.4	111.9	116.1	127.9	10- 20	1035	3925	82.5,66.7
30	44.02	43.93	42.09	39.83	38.06	37.93	39.48	42.10	20- 30	319.9	4245	89.2,72.2
40	21.70	21.57	21.01	20.89	20.12	19.76	20.38	21.41	30- 40	179.6	4424	93,75.2
50	13.25	13.02	12.72	12.64	12.13	11.97	12.39	13.11	40- 50	128.1	4552	95.7,77.4
60	8.215	8.225	8.091	7.959	7.700	7.644	7.823	8.132	50- 60	88.35	4641	97.5,78.9
70	5.437	5.412	5.306	5.222	5.114	5.056	5.130	5.340	60- 70	64.51	4705	98.9,80
80	2.799	2.768	2.599	2.333	2.164	2.179	2.344	2.629	70- 80	42.52	4748	99.8,80.7
90	0.1292	0.1360	0.0361	0.0405	0.0433	0.0618	0.0393	0.0598	80- 90	11.41	4759	100,80.9
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:×10cd									UNIT:lm		

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-08-23

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:10.214m [K=1.0000]  
 Remarks:

**LUMINANCE LIMITATION CURVES**

Test:U:34.804V I:1.3999A P:48.722W PF:1.0000 Freq:0Hz Lamp Flux:5880x1 lm		
NAME: LYE-8053A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2300203
MFR.: Cosine	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1864	1621
80	2208	2050
75	2355	2231
70	2177	2125
65	2170	2127
60	2251	2217
55	2384	2323
50	2824	2710
45	3348	3248

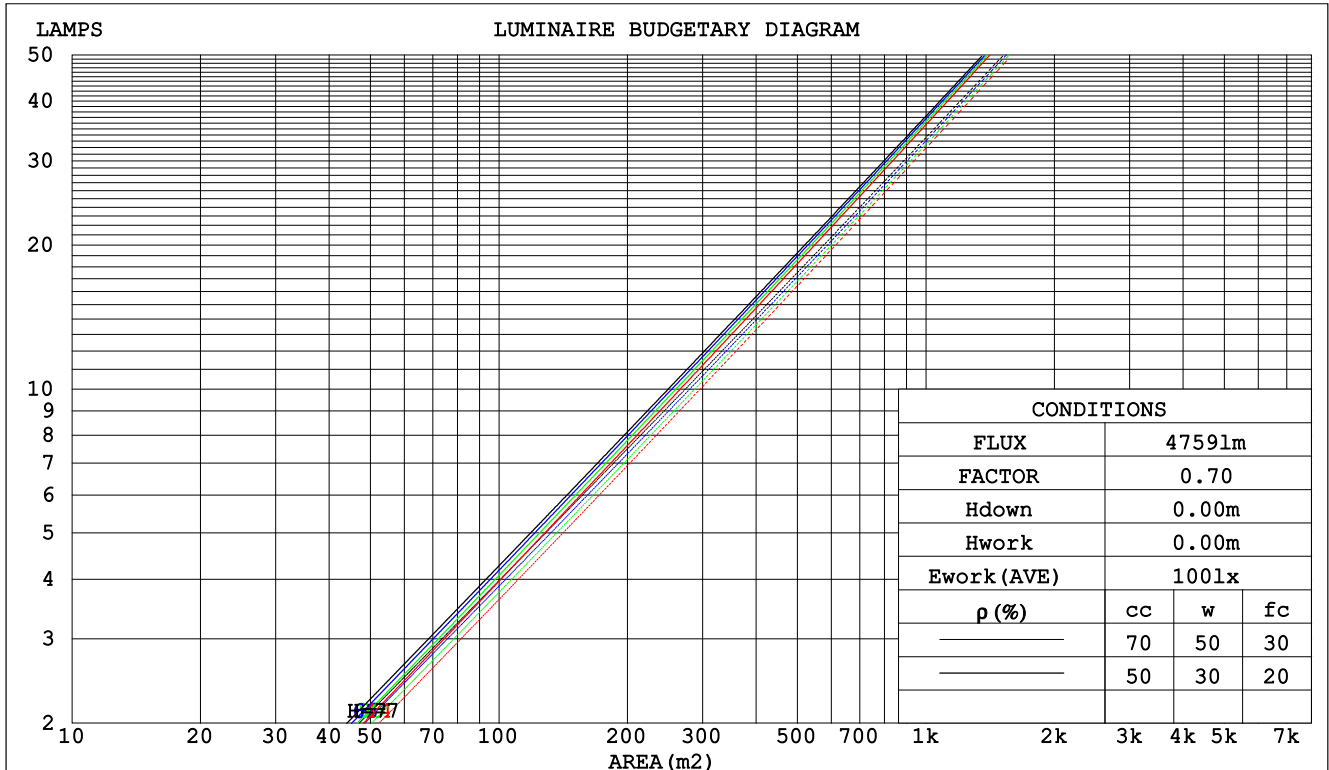
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-08-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:10.214m [K=1.0000]  
 Remarks:

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:34.804V I:1.3999A P:48.722W PF:1.0000 Freq:0Hz Lamp Flux:5880x1 lm		
NAME: LYE-8053A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2300203
MFR.: Cosine	SUR.:	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	.96	.96	.96	.94	.94	.94	.90	.90	.90	.86	.86	.86	.83	.83	.83	.81
1.0	.91	.90	.88	.90	.88	.87	.86	.85	.84	.84	.83	.82	.81	.80	.80	.78
2.0	.87	.85	.83	.86	.84	.82	.83	.82	.80	.81	.80	.79	.79	.78	.77	.76
3.0	.84	.81	.79	.83	.80	.78	.81	.79	.77	.79	.77	.76	.77	.76	.75	.74
4.0	.81	.78	.76	.80	.77	.75	.79	.76	.74	.77	.75	.74	.76	.74	.73	.72
5.0	.79	.76	.73	.78	.75	.73	.77	.74	.72	.76	.73	.72	.74	.73	.71	.70
6.0	.77	.73	.71	.76	.73	.71	.75	.72	.71	.74	.72	.70	.73	.71	.70	.69
7.0	.75	.72	.70	.74	.71	.69	.73	.71	.69	.73	.70	.69	.72	.70	.68	.68
8.0	.73	.70	.68	.73	.70	.68	.72	.70	.68	.71	.69	.68	.71	.69	.67	.67
9.0	.72	.69	.67	.71	.69	.67	.71	.68	.67	.70	.68	.66	.70	.68	.66	.66
10.0	.71	.68	.66	.70	.68	.66	.70	.67	.66	.69	.67	.65	.69	.67	.65	.65



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-08-23

γ Range: 0 - 90DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
 Humidity:65.0%  
 Test Distance:10.214m [K=1.0000]  
 Remarks:

**UGR(Unified Glare Rating) Table**

Test:U:34.804V I:1.3999A P:48.722W PF:1.0000 Freq:0Hz										
Lamp Flux:5880x1 lm										
NAME: LYE-8053A					TYPE: LED			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.: 2300203		
MFR.: Cosine					SUR.:			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	3.2	3.8	3.4	4.0	4.1	3.1	3.7	3.3	3.8	4.0
3H	4.6	5.1	4.8	5.3	5.5	4.4	5.0	4.7	5.2	5.3
4H	5.3	5.8	5.5	6.0	6.2	5.1	5.7	5.4	5.9	6.1
6H	5.9	6.4	6.2	6.6	6.9	5.7	6.2	6.0	6.4	6.7
8H	6.1	6.6	6.4	6.8	7.1	5.9	6.4	6.1	6.6	6.8
12H	6.2	6.7	6.5	7.0	7.2	5.9	6.4	6.2	6.7	7.0
4H 2H	3.8	4.3	4.0	4.5	4.7	3.6	4.2	3.9	4.4	4.6
3H	5.3	5.8	5.6	6.1	6.3	5.2	5.7	5.5	5.9	6.2
4H	6.2	6.7	6.5	6.9	7.2	6.1	6.5	6.4	6.8	7.1
6H	7.0	7.4	7.3	7.7	8.0	6.8	7.2	7.1	7.5	7.8
8H	7.2	7.6	7.6	7.9	8.3	7.0	7.3	7.3	7.7	8.0
12H	7.3	7.7	7.7	8.1	8.4	7.1	7.4	7.5	7.8	8.2
8H 4H	6.5	6.9	6.9	7.2	7.6	6.4	6.8	6.8	7.1	7.5
6H	7.4	7.7	7.8	8.1	8.5	7.2	7.5	7.7	7.9	8.3
8H	7.7	8.0	8.2	8.4	8.9	7.5	7.8	8.0	8.2	8.6
12H	8.0	8.2	8.4	8.6	9.1	7.7	7.9	8.2	8.4	8.8
12H 4H	6.5	6.9	6.9	7.3	7.6	6.4	6.8	6.8	7.1	7.5
6H	7.5	7.8	7.9	8.2	8.6	7.3	7.6	7.7	8.0	8.4
8H	7.8	8.1	8.3	8.5	9.0	7.6	7.9	8.1	8.3	8.8
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.3				
2.0H	+ 0.4 / - 0.3					+ 0.4 / - 0.3				

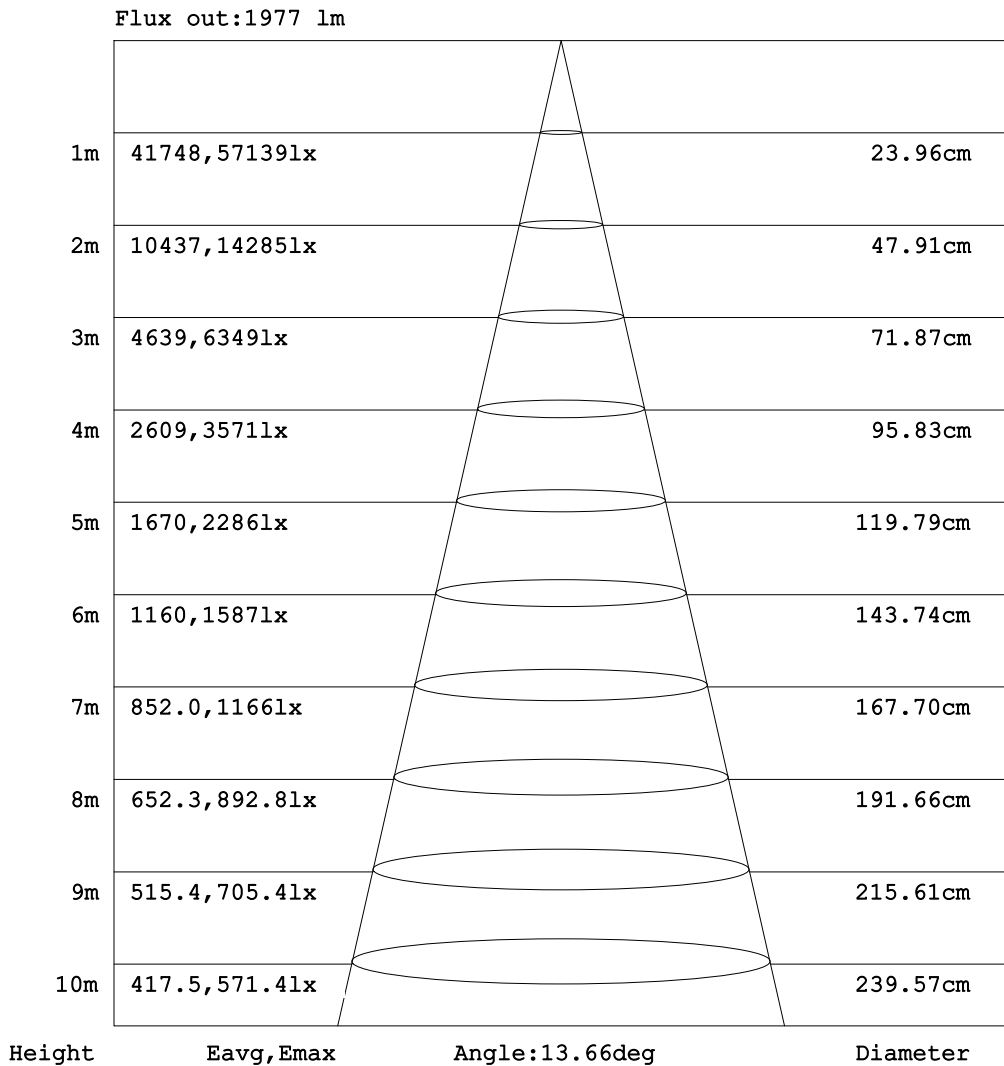
CIE Pub.117, 5880 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.2)  
Area: 0.073 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:10.214m [K=1.0000]  
Remarks:

**AAI Figure**

Test:U:34.804V I:1.3999A P:48.722W PF:1.0000 Freq:0Hz Lamp Flux:5880x1 lm		
NAME: LYE-8053A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 2300203
MFR.: Cosine	SUR.:	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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-08-23

γ Range: 0 - 90DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.444  
Humidity:65.0%  
Test Distance:10.214m [K=1.0000]  
Remarks:

