



Light Output Ratio:	81.9%	
Luminaire Power:	48.74 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

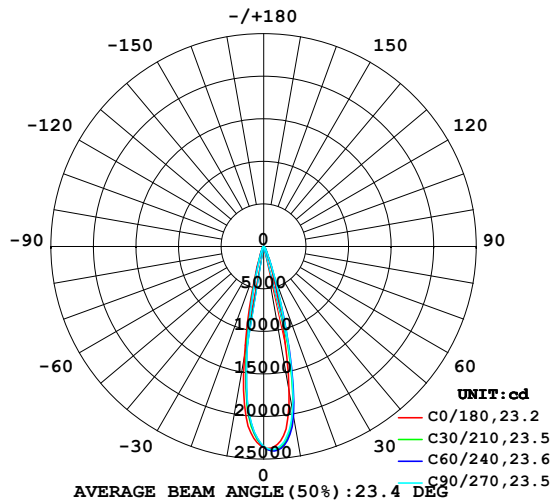
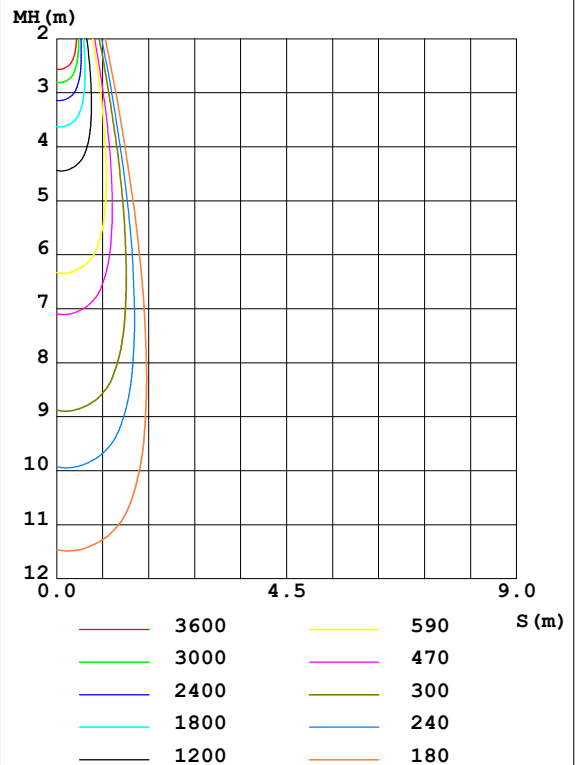
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2023-08-23

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:34.817V I:1.3999A P:48.740W 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: 98.77 lm/W
MODEL	CXB1512	I _{max} (cd)	24070	S/MH (C0/180)	0.35	
NOMINAL POWER (W)	49	LOR (%)	81.9	S/MH (C90/270)	0.32	
RATED VOLTAGE (V)	35	TOTAL FLUX (lm)	4813.9	η UP, DN (C0-180)	0.0, 48.8	
NOMINAL FLUX (lm)	5880	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 33.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	35	η down (%)	81.9	CIBSE SHR MAX	0.30	

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:

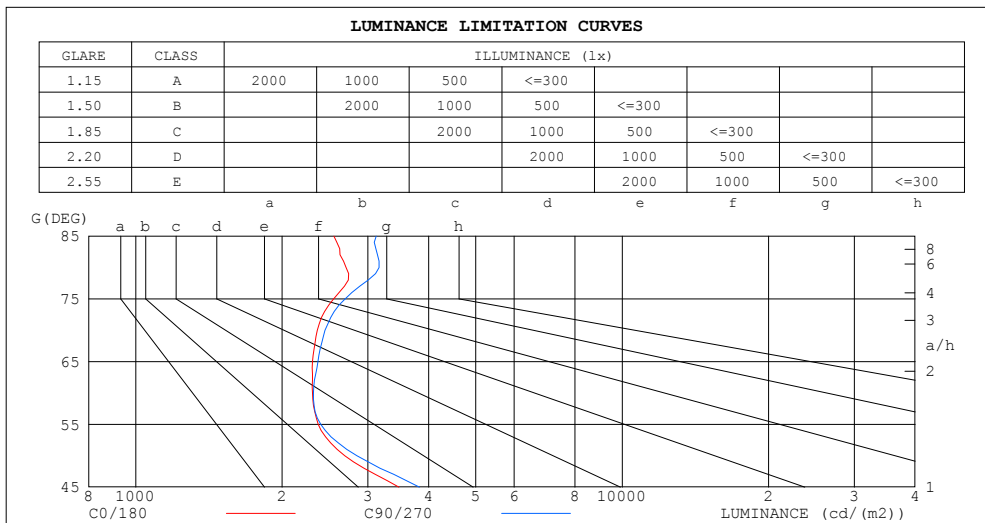
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1730	1995	1968	1666	1315	1102	1064	1313	0- 10	1872	1872	38.9,31.8
20	244.6	333.2	342.6	246.9	173.7	143.3	139.0	173.2	10- 20	1879	3751	77.9,63.8
30	56.88	66.08	66.77	56.69	48.40	43.61	43.26	47.87	20- 30	486.0	4237	88,72.1
40	26.20	29.51	29.31	25.97	23.00	20.45	19.82	22.13	30- 40	228.8	4466	92.8,76
50	12.62	13.63	13.37	12.17	11.38	10.59	10.25	10.99	40- 50	131.8	4598	95.5,78.2
60	8.428	8.649	8.464	8.162	7.924	7.565	7.390	7.745	50- 60	85.82	4684	97.3,79.7
70	5.896	6.150	6.118	5.817	5.498	5.217	5.137	5.428	60- 70	67.61	4751	98.7,80.8
80	3.434	3.962	4.010	3.496	2.770	2.273	2.256	2.729	70- 80	47.97	4799	99.7,81.6
90	0.0570	0.2158	0.2310	0.0706	0.0489	0.0457	0.0465	0.0453	80- 90	14.69	4814	100,81.9
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

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:

LUMINANCE LIMITATION CURVES

Test:U:34.817V I:1.3999A P:48.740W 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	2556	3120
80	2709	3164
75	2552	2693
70	2361	2450
65	2309	2369
60	2309	2319
55	2373	2402
50	2689	2850
45	3478	3829

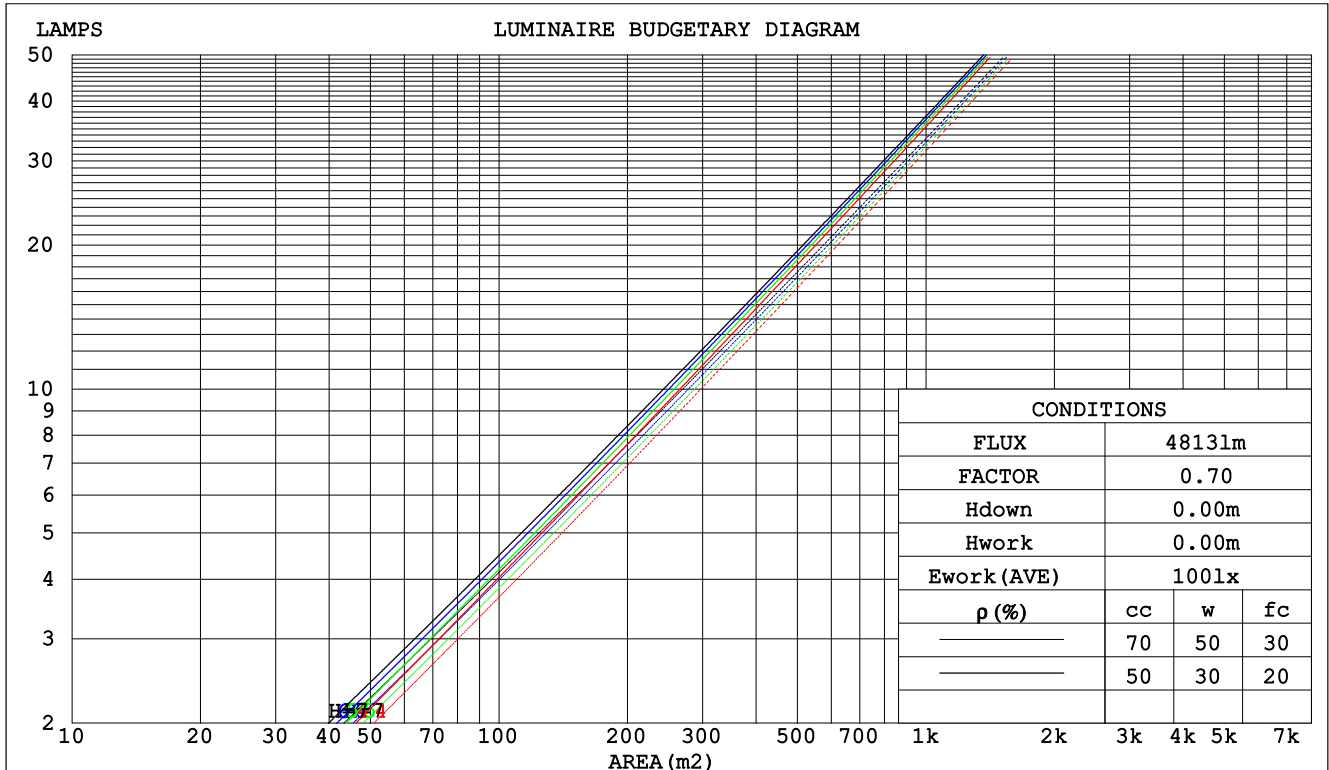
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2023-08-23

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:34.817V I:1.3999A P:48.740W 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	.97	.97	.97	.95	.95	.95	.91	.91	.91	.87	.87	.87	.84	.84	.84	.82
1.0	.92	.90	.89	.90	.89	.87	.87	.86	.84	.84	.83	.82	.81	.80	.80	.78
2.0	.87	.84	.82	.86	.83	.81	.83	.81	.79	.81	.79	.78	.79	.77	.76	.75
3.0	.83	.80	.77	.82	.79	.77	.80	.77	.75	.78	.76	.74	.76	.75	.73	.72
4.0	.80	.76	.73	.79	.75	.73	.77	.74	.72	.75	.73	.71	.74	.72	.71	.69
5.0	.76	.73	.70	.76	.72	.70	.74	.72	.69	.73	.71	.69	.72	.70	.68	.67
6.0	.74	.70	.68	.73	.70	.67	.72	.69	.67	.71	.68	.67	.70	.68	.66	.65
7.0	.71	.68	.65	.71	.68	.65	.70	.67	.65	.69	.66	.64	.68	.66	.64	.63
8.0	.69	.66	.63	.69	.65	.63	.68	.65	.63	.67	.65	.63	.67	.64	.62	.62
9.0	.67	.64	.61	.67	.64	.61	.66	.63	.61	.66	.63	.61	.65	.63	.61	.60
10.0	.65	.62	.60	.65	.62	.60	.65	.62	.60	.64	.61	.60	.64	.61	.59	.59



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:34.817V I:1.3999A P:48.740W 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	3.9	4.6	4.1	4.7	4.9	4.1	4.8	4.3	4.9	5.1
3H	5.2	5.8	5.4	6.0	6.2	5.4	6.0	5.6	6.2	6.4
4H	5.9	6.5	6.1	6.7	6.9	6.1	6.7	6.4	6.9	7.1
6H	6.6	7.2	6.9	7.4	7.7	6.9	7.5	7.2	7.8	8.0
8H	6.9	7.4	7.2	7.7	7.9	7.3	7.8	7.6	8.1	8.3
12H	7.1	7.6	7.4	7.9	8.1	7.5	8.1	7.8	8.3	8.6
4H 2H	4.4	5.0	4.6	5.2	5.4	4.5	5.2	4.8	5.4	5.6
3H	5.9	6.5	6.2	6.7	7.0	6.1	6.6	6.4	6.9	7.2
4H	6.8	7.3	7.2	7.6	7.9	7.0	7.5	7.3	7.8	8.1
6H	7.7	8.2	8.1	8.5	8.9	8.0	8.5	8.4	8.8	9.2
8H	8.1	8.5	8.5	8.9	9.2	8.5	8.9	8.8	9.2	9.6
12H	8.3	8.7	8.7	9.1	9.5	8.8	9.2	9.2	9.5	9.9
8H 4H	7.2	7.6	7.6	8.0	8.4	7.4	7.8	7.8	8.2	8.5
6H	8.4	8.7	8.8	9.1	9.5	8.6	9.0	9.1	9.4	9.8
8H	8.8	9.1	9.3	9.5	10.0	9.2	9.5	9.6	9.9	10.3
12H	9.2	9.4	9.6	9.9	10.3	9.6	9.8	10.0	10.3	10.8
12H 4H	7.3	7.7	7.7	8.0	8.4	7.4	7.8	7.8	8.2	8.6
6H	8.5	8.8	8.9	9.2	9.7	8.7	9.1	9.2	9.5	9.9
8H	9.0	9.3	9.5	9.7	10.2	9.3	9.6	9.8	10.0	10.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.4 / - 0.3					+ 0.4 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.4 / - 0.3				

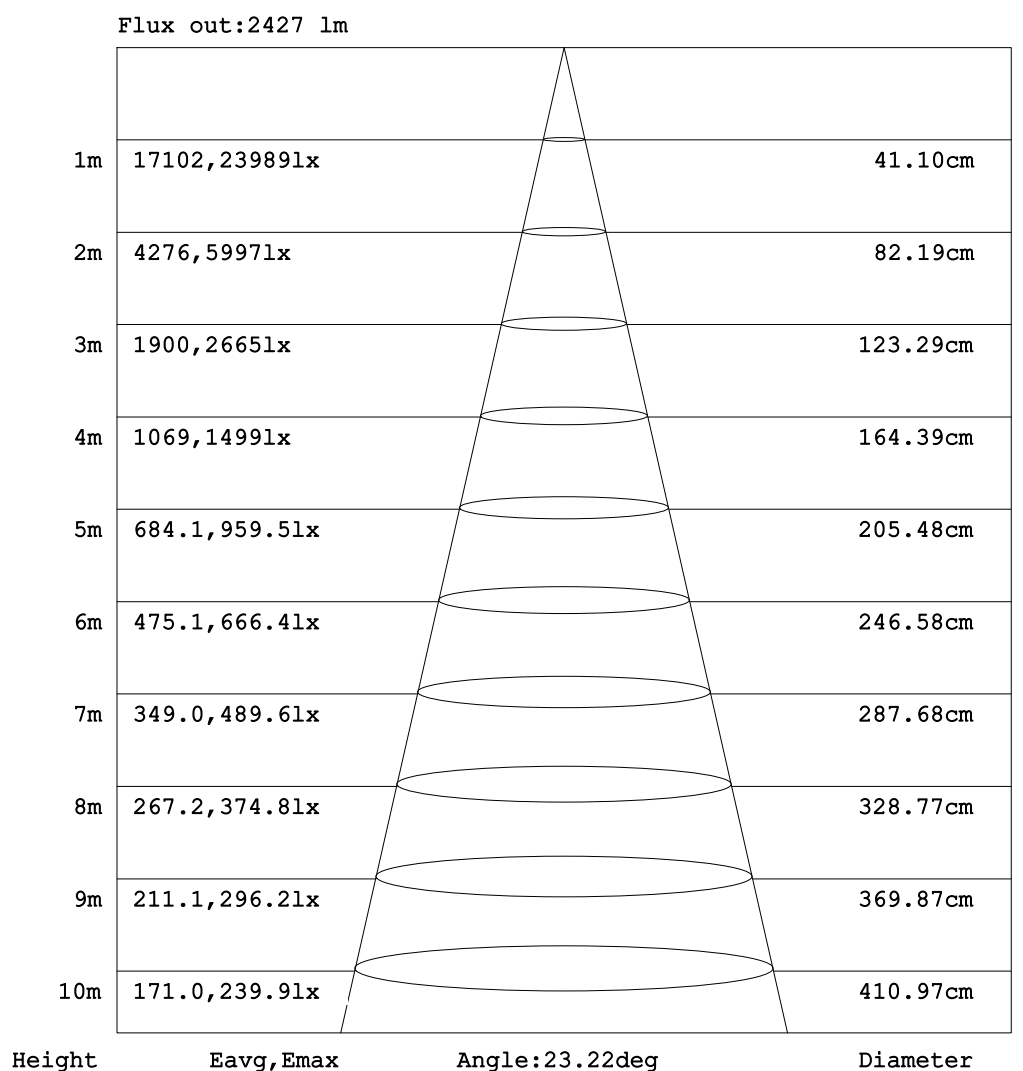
CIE Pub.117, 5880 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.2)
Area: 0.073 m2

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:34.817V I:1.3999A P:48.740W 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:

