



Light Output Ratio:	85.8%	
Luminaire Power:	24.22 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

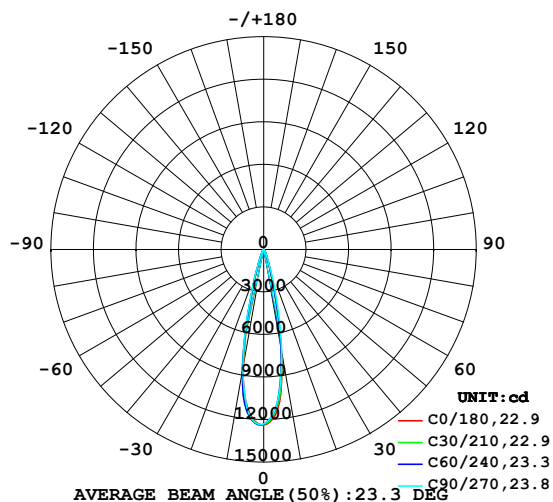
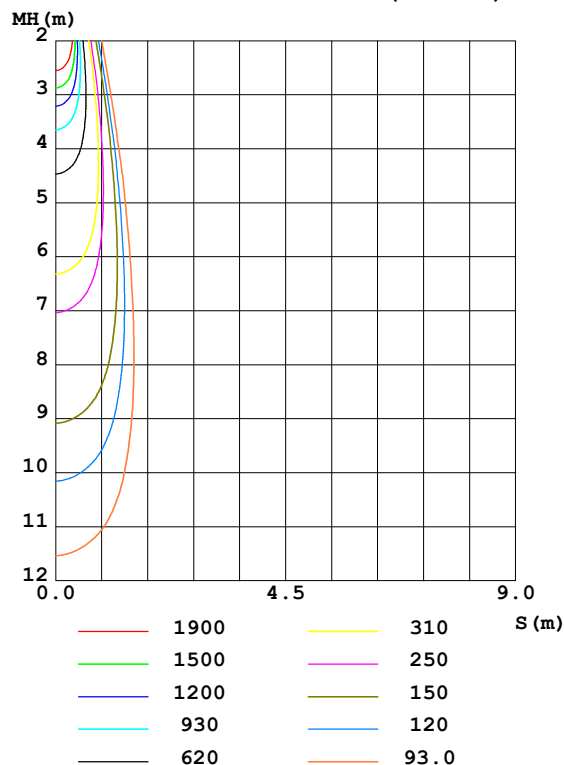
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-06-27

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:34.594V I:0.7000A P:24.216W PF:1.0000 Freq:49.99Hz Lamp Flux:2884x1 lm		
NAME: LYE-8051A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
MFR.: Cosine	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 102.17 lm/W			
MODEL	CXB1512-3000K	I <sub>max</sub> (cd)	12376	S/MH (C0/180)	0.38
NOMINAL POWER(W)	26	LOR(%)	85.8	S/MH (C90/270)	0.39
RATED VOLTAGE(V)	37	TOTAL FLUX(lm)	2474.0	η UP,DN(C0-180)	0.0,41.1
NOMINAL FLUX(lm)	2884	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	37	η down (%)	85.8	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: 2023-06-27

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:**

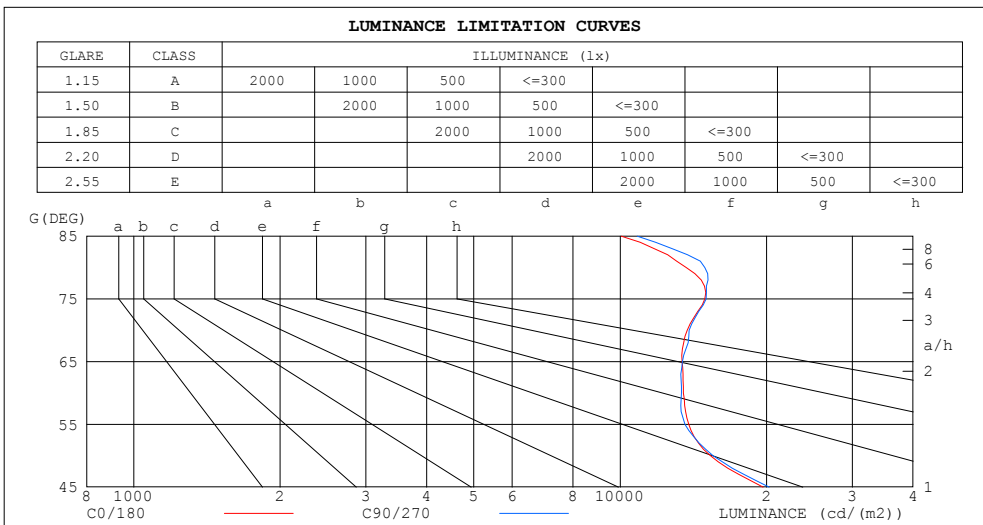
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	719.6	705.0	729.0	768.9	831.7	865.9	854.2	788.7	0- 10	970.0	970.0	39.2,33.6
20	96.47	98.20	118.2	126.0	117.8	120.2	129.1	116.2	10- 20	963.3	1933	78.1,67
30	26.17	27.18	29.27	28.31	27.20	27.67	27.39	26.52	20- 30	249.0	2182	88.2,75.7
40	12.42	12.60	12.90	12.16	12.28	12.90	12.04	11.91	30- 40	116.1	2299	92.9,79.7
50	5.920	5.946	5.986	5.988	6.143	6.233	5.836	5.789	40- 50	66.45	2365	95.6,82
60	4.049	4.104	4.008	4.077	4.208	4.144	3.885	3.919	50- 60	43.32	2408	97.3,83.5
70	2.818	2.830	2.845	2.879	2.934	2.920	2.786	2.809	60- 70	34.09	2442	98.7,84.7
80	1.424	1.433	1.556	1.592	1.644	1.711	1.659	1.509	70- 80	24.14	2467	99.7,85.5
90	0.0160	0.0176	0.0626	0.0886	0.0217	0.0345	0.1115	0.0497	80- 90	7.533	2474	100,85.8
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:2023-06-27

$\gamma$  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:34.594V I:0.7000A P:24.216W PF:1.0000 Freq:49.99Hz Lamp Flux:2884x1 lm		
NAME: LYE-8051A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
MFR.: Cosine	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10056	10836
80	13665	14938
75	14929	15011
70	13731	13866
65	13414	13436
60	13495	13361
55	13843	13591
50	15350	15522
45	19668	20239

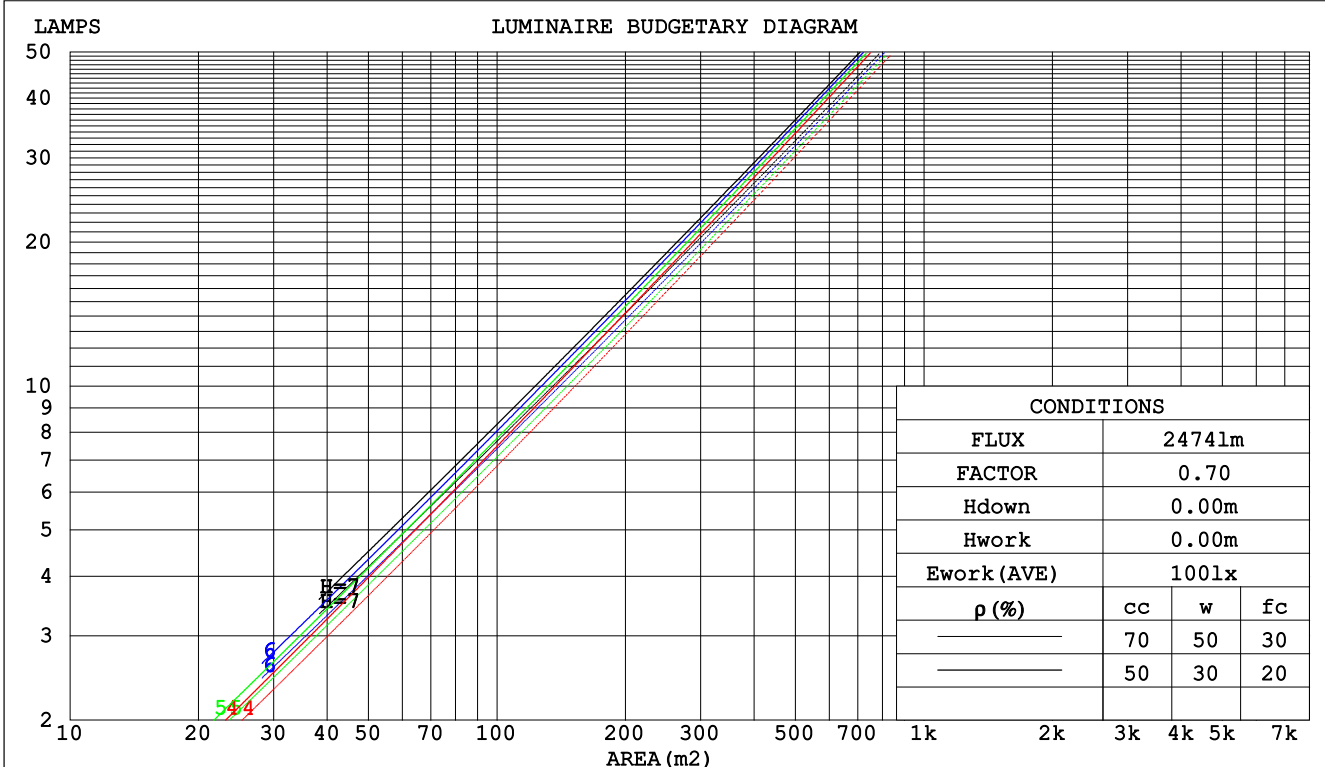
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-27

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:34.594V I:0.7000A P:24.216W PF:1.0000 Freq:49.99Hz Lamp Flux:2884x1 lm		
NAME: LYE-8051A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
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	1.02	1.02	1.02	.00	.00	.00	.95	.95	.95	.91	.91	.91	.88	.88	.88	.86
1.0	.96	.94	.93	.94	.93	.91	.91	.90	.89	.88	.87	.86	.85	.84	.83	.82
2.0	.91	.88	.86	.90	.87	.85	.87	.85	.83	.85	.83	.82	.82	.81	.80	.79
3.0	.87	.84	.81	.86	.83	.80	.84	.81	.79	.82	.80	.78	.80	.78	.77	.76
4.0	.83	.80	.77	.82	.79	.77	.81	.78	.76	.79	.77	.75	.78	.76	.74	.73
5.0	.80	.76	.74	.79	.76	.73	.78	.75	.73	.77	.74	.72	.76	.73	.72	.71
6.0	.77	.74	.71	.77	.73	.71	.76	.73	.70	.75	.72	.70	.74	.71	.69	.68
7.0	.75	.71	.69	.74	.71	.68	.73	.70	.68	.73	.70	.68	.72	.69	.67	.67
8.0	.73	.69	.66	.72	.69	.66	.71	.68	.66	.71	.68	.66	.70	.67	.66	.65
9.0	.71	.67	.65	.70	.67	.65	.70	.66	.64	.69	.66	.64	.68	.66	.64	.63
10.0	.69	.65	.63	.68	.65	.63	.68	.65	.63	.67	.65	.63	.67	.64	.62	.62



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-27

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**

<b>Test:U:34.594V I:0.7000A P:24.216W PF:1.0000 Freq:49.99Hz</b> <b>Lamp Flux:2884x1 lm</b>										
<b>NAME: LYE-8051A</b>					<b>TYPE: LED</b>			<b>WEIGHT:</b>		
<b>SPEC.:</b>					<b>DIM.:</b>			<b>SERIAL No.: 230091</b>		
<b>MFR.: Cosine</b>					<b>SUR.:</b>			<b>Shielding Angle:</b>		
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	11.9	12.6	12.1	12.8	12.9	12.0	12.7	12.2	12.8	13.0
3H	13.3	13.9	13.5	14.1	14.3	13.3	14.0	13.6	14.2	14.4
4H	14.1	14.7	14.3	14.9	15.1	14.1	14.7	14.3	14.9	15.1
6H	14.7	15.3	15.0	15.5	15.7	14.8	15.3	15.0	15.6	15.8
8H	14.9	15.4	15.2	15.7	15.9	15.0	15.5	15.3	15.8	16.0
12H	14.9	15.5	15.2	15.8	16.0	15.1	15.6	15.4	15.9	16.1
4H 2H	12.4	13.1	12.7	13.3	13.5	12.5	13.1	12.7	13.3	13.5
3H	14.1	14.6	14.4	14.9	15.1	14.1	14.6	14.4	14.9	15.2
4H	15.0	15.5	15.4	15.8	16.1	15.0	15.5	15.4	15.8	16.1
6H	15.8	16.2	16.1	16.5	16.9	15.8	16.3	16.2	16.6	16.9
8H	16.0	16.4	16.4	16.8	17.1	16.1	16.5	16.5	16.8	17.2
12H	16.1	16.5	16.5	16.8	17.2	16.2	16.6	16.6	17.0	17.3
8H 4H	15.4	15.8	15.8	16.1	16.5	15.4	15.8	15.8	16.1	16.5
6H	16.2	16.6	16.7	17.0	17.4	16.3	16.7	16.7	17.0	17.5
8H	16.5	16.8	17.0	17.3	17.7	16.6	16.9	17.1	17.4	17.8
12H	16.7	17.0	17.2	17.4	17.9	16.8	17.1	17.3	17.5	18.0
12H 4H	15.4	15.8	15.8	16.1	16.5	15.4	15.8	15.8	16.1	16.5
6H	16.3	16.6	16.7	17.0	17.5	16.4	16.7	16.8	17.1	17.5
8H	16.6	16.9	17.1	17.3	17.8	16.7	17.0	17.2	17.4	17.9
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					+ 0.3 / - 0.3				

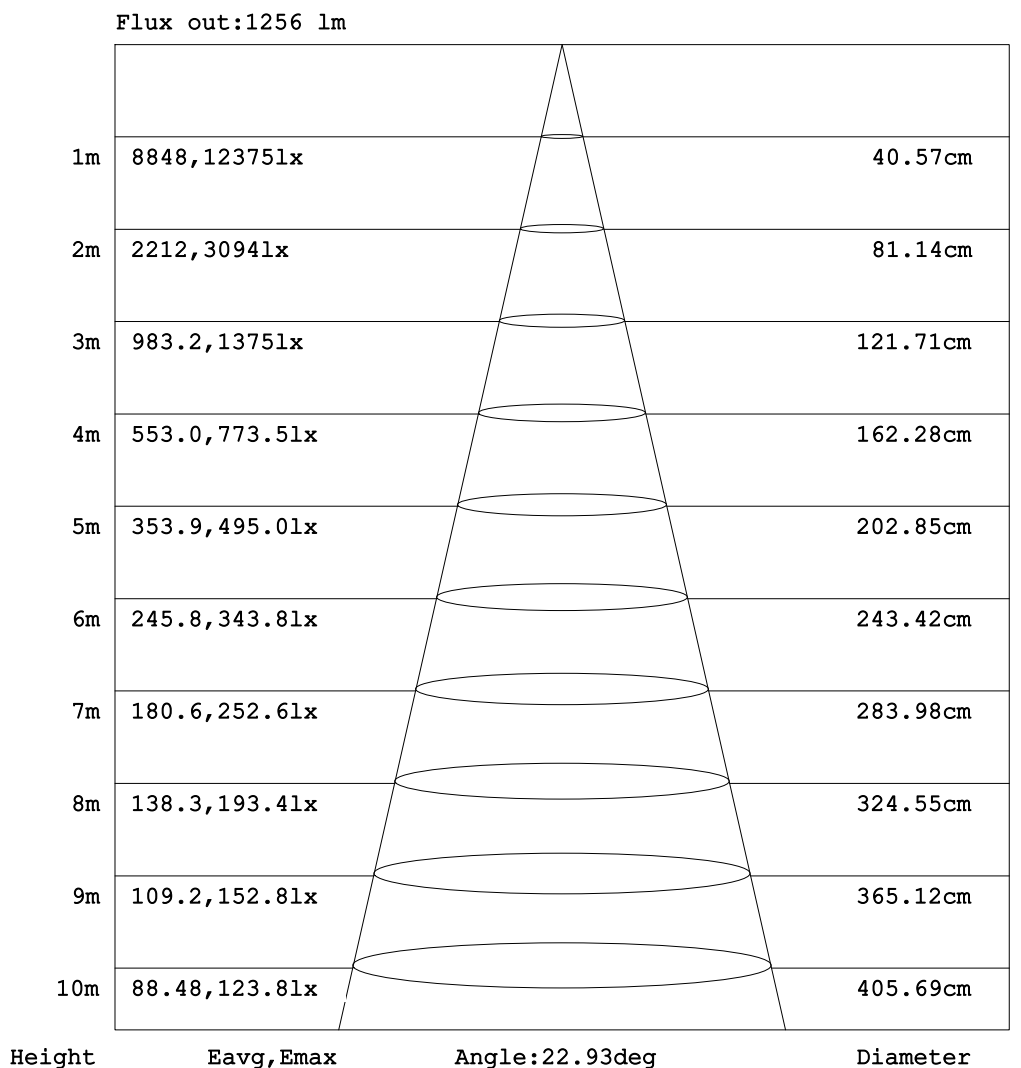
CIE Pub.117, 2884 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)  
Area: 0.006 m2

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-06-27

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:34.594V I:0.7000A P:24.216W PF:1.0000 Freq:49.99Hz Lamp Flux:2884x1 lm		
NAME: LYE-8051A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
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:2023-06-27

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

