



Light Output Ratio:	83.9%	
Luminaire Power:	12.73 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

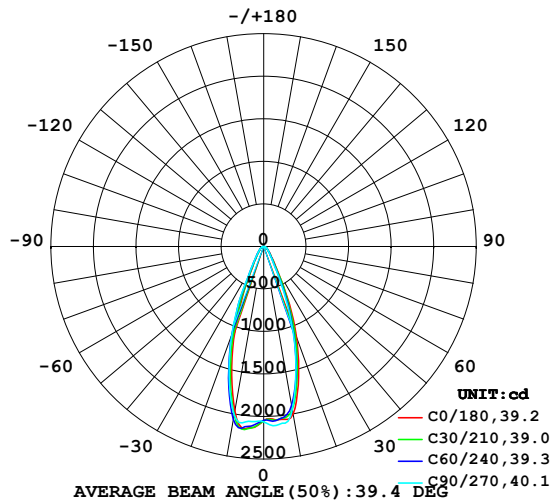
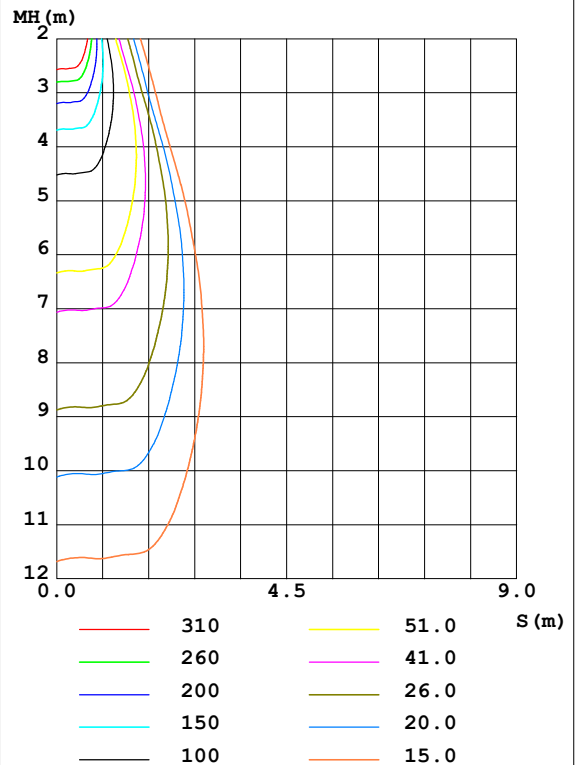
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2023-06-27

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:36.374V I:0.3500A P:12.731W PF:1.0000 Freq:49.99Hz Lamp Flux:1370x1 lm		
NAME: LYE-8048A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
MFR.: Cosine	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.26 lm/W			
MODEL	CXB1304-3000K	I <sub>max</sub> (cd)	2164	S/MH (C0/180)	0.60
NOMINAL POWER(W)	12.8	LOR(%)	83.9	S/MH (C90/270)	0.64
RATED VOLTAGE(V)	36.6	TOTAL FLUX(lm)	1149.0	η UP,DN(C0-180)	0.0,40.7
NOMINAL FLUX(lm)	1370	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,43.2
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	36.6	η down (%)	83.9	CIBSE SHR MAX	0.65

**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:**

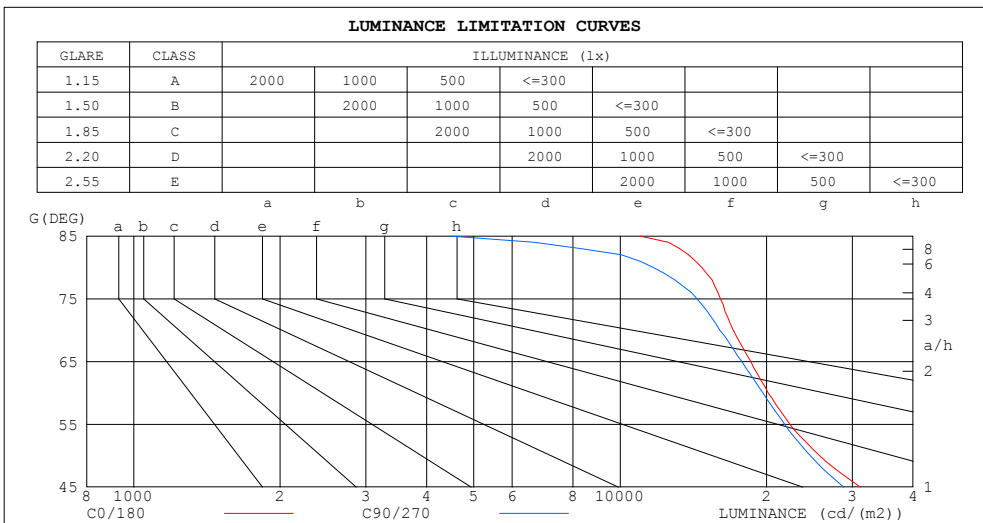
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	1999	1920	1946	1911	1965	2037	2008	2049	0- 10	197.1	197.1	17.2,14.4
20	1126	1027	964.7	895.4	932.7	1044	1097	1165	10- 20	416.7	613.8	53.4,44.8
30	311.0	271.0	247.2	234.1	241.6	266.5	289.8	318.1	20- 30	265.3	879.1	76.5,64.2
40	123.2	114.3	109.1	105.0	106.8	113.6	120.3	126.7	30- 40	109.0	988.1	86,72.1
50	66.16	64.27	63.25	60.32	60.56	63.55	66.08	67.73	40- 50	65.88	1054	91.7,76.9
60	40.33	39.85	39.32	37.25	37.27	39.42	40.48	40.98	50- 60	45.20	1099	95.7,80.2
70	23.38	22.71	21.94	20.53	20.71	22.37	23.16	23.61	60- 70	30.12	1129	98.3,82.4
80	10.23	9.287	8.140	7.118	7.325	8.606	9.805	10.44	70- 80	16.32	1146	99.7,83.6
90	0.0802	0.0722	0.0802	0.0802	0.0963	0.0963	0.1043	0.1003	80- 90	3.466	1149	100,83.9
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:cd									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:36.374V I:0.3500A P:12.731W PF:1.0000 Freq:49.99Hz Lamp Flux:1370x1 lm		
NAME: LYE-8048A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
MFR.: Cosine	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11003	4507
80	14722	11719
75	16086	14403
70	17093	16040
65	18557	17802
60	20166	19662
55	22348	21794
50	25730	24601
45	31176	28824

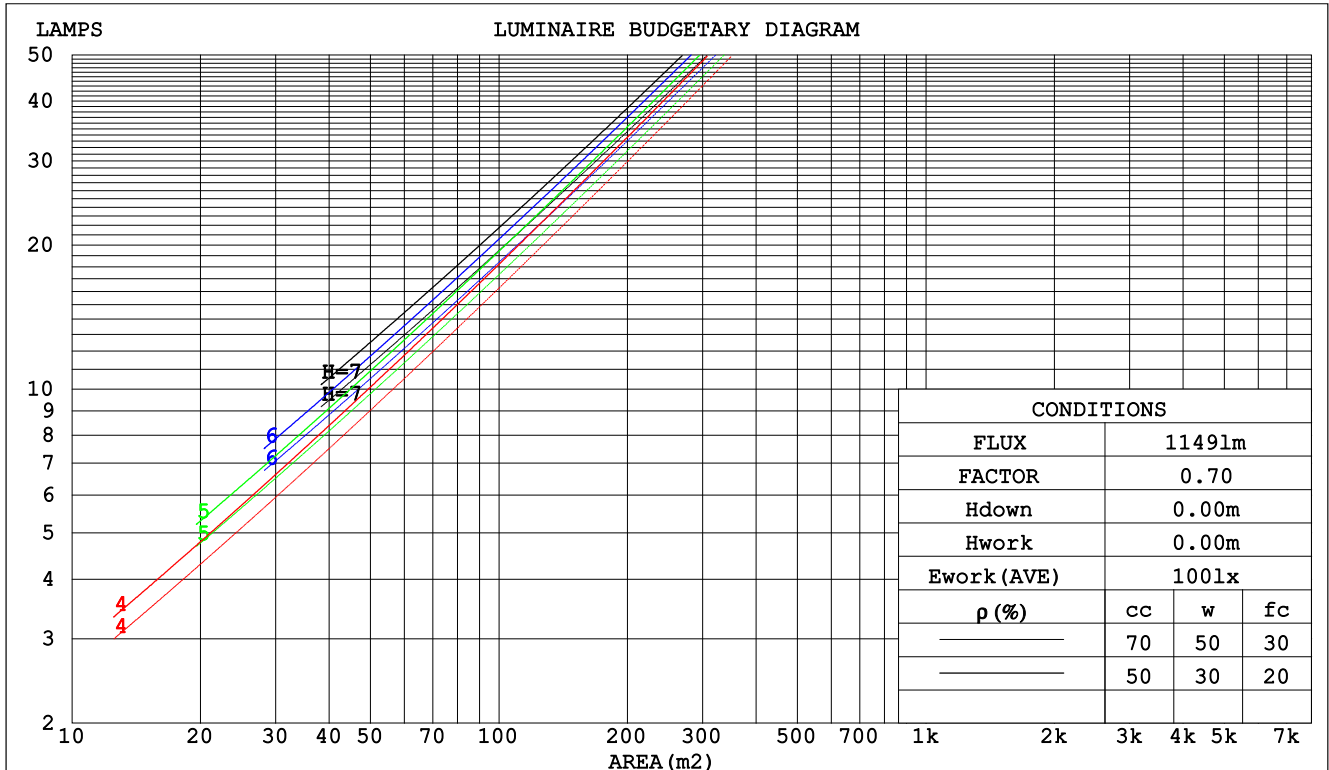
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-27

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:36.374V I:0.3500A P:12.731W PF:1.0000 Freq:49.99Hz Lamp Flux:1370x1 lm		
NAME: LYE-8048A	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	.00	.00	.00	.98	.98	.98	.93	.93	.93	.89	.89	.89	.86	.86	.86	.84
1.0	.93	.90	.89	.91	.89	.87	.87	.86	.84	.84	.83	.82	.81	.80	.80	.78
2.0	.86	.83	.80	.85	.82	.79	.82	.79	.77	.79	.77	.76	.77	.75	.74	.73
3.0	.81	.76	.73	.79	.76	.72	.77	.74	.71	.75	.72	.70	.73	.71	.69	.68
4.0	.76	.71	.68	.75	.70	.67	.73	.69	.66	.71	.68	.66	.70	.67	.65	.64
5.0	.71	.67	.63	.71	.66	.63	.69	.65	.62	.68	.64	.62	.66	.63	.61	.60
6.0	.68	.63	.59	.67	.62	.59	.66	.62	.59	.64	.61	.58	.63	.60	.58	.57
7.0	.64	.59	.56	.64	.59	.56	.62	.58	.55	.62	.58	.55	.61	.57	.55	.54
8.0	.61	.56	.53	.61	.56	.53	.60	.56	.53	.59	.55	.52	.58	.55	.52	.51
9.0	.58	.54	.50	.58	.53	.50	.57	.53	.50	.56	.53	.50	.56	.52	.50	.49
10.0	.56	.51	.48	.55	.51	.48	.55	.51	.48	.54	.50	.48	.53	.50	.48	.47



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:36.374V I:0.3500A P:12.731W PF:1.0000 Freq:49.99Hz</b> <b>Lamp Flux:1370x1 lm</b>										
<b>NAME: LYE-8048A</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	18.6	19.5	18.8	19.7	19.9	18.3	19.3	18.6	19.4	19.6
3H	19.6	20.4	19.8	20.6	20.8	19.3	20.2	19.6	20.4	20.6
4H	20.0	20.8	20.3	21.0	21.3	19.7	20.5	20.0	20.7	20.9
6H	20.4	21.1	20.7	21.4	21.6	20.0	20.7	20.2	21.0	21.2
8H	20.5	21.2	20.8	21.5	21.7	20.0	20.7	20.3	21.0	21.3
12H	20.5	21.2	20.8	21.5	21.8	20.0	20.7	20.3	21.0	21.2
4H 2H	19.0	19.8	19.3	20.0	20.2	18.8	19.6	19.0	19.8	20.0
3H	20.2	20.9	20.5	21.1	21.4	19.9	20.6	20.2	20.9	21.2
4H	20.7	21.4	21.1	21.7	22.0	20.4	21.1	20.8	21.4	21.7
6H	21.2	21.7	21.5	22.1	22.4	20.8	21.4	21.2	21.7	22.0
8H	21.3	21.8	21.7	22.2	22.6	20.9	21.4	21.3	21.7	22.1
12H	21.4	21.9	21.8	22.2	22.6	20.9	21.3	21.3	21.7	22.1
8H 4H	20.9	21.4	21.3	21.8	22.1	20.6	21.1	21.0	21.5	21.9
6H	21.4	21.9	21.9	22.3	22.7	21.1	21.5	21.5	21.9	22.3
8H	21.6	22.0	22.1	22.5	22.9	21.2	21.6	21.7	22.0	22.5
12H	21.8	22.1	22.2	22.5	23.0	21.2	21.6	21.7	22.0	22.5
12H 4H	20.9	21.3	21.3	21.7	22.1	20.6	21.1	21.0	21.5	21.9
6H	21.5	21.8	21.9	22.3	22.7	21.1	21.5	21.6	21.9	22.4
8H	21.7	22.0	22.2	22.5	22.9	21.3	21.6	21.7	22.0	22.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.4 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 0.6 / - 0.3					+ 0.4 / - 0.3				
2.0H	+ 0.6 / - 0.4					+ 0.5 / - 0.5				

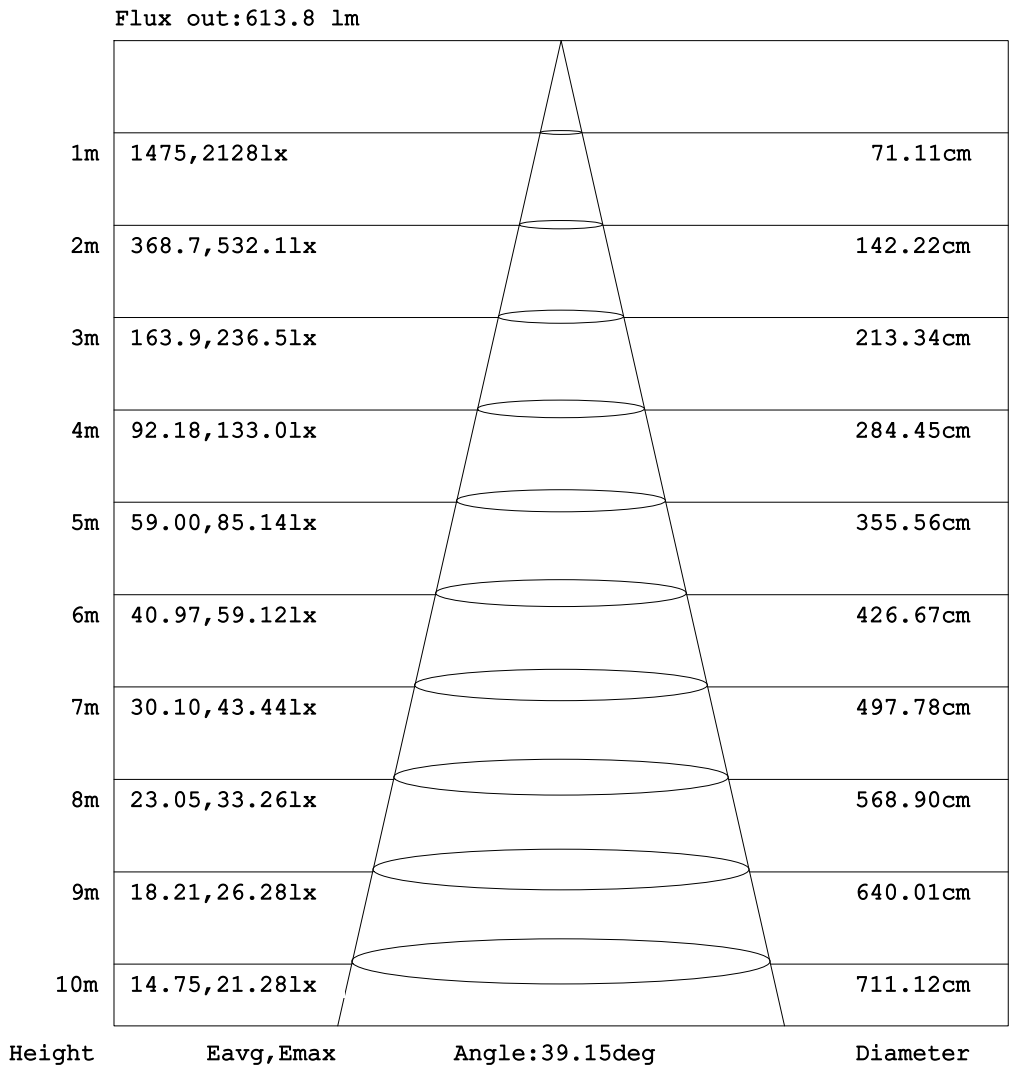
CIE Pub.117, 1370 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)  
Area: 0.004 m2

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:36.374V I:0.3500A P:12.731W PF:1.0000 Freq:49.99Hz Lamp Flux:1370x1 lm		
NAME: LYE-8048A	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  
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:

