



Light Output Ratio:	84.8%	
Luminaire Power:	12.83 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

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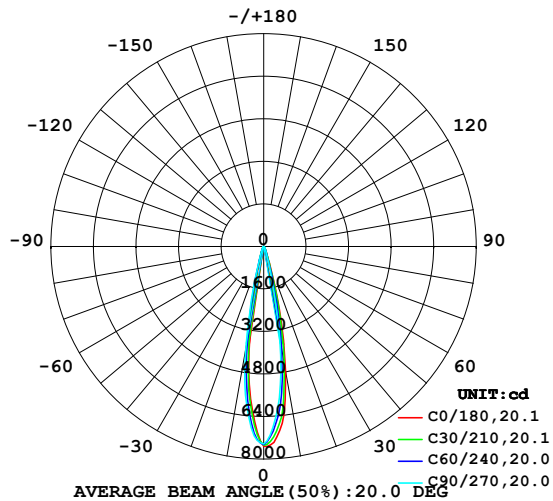
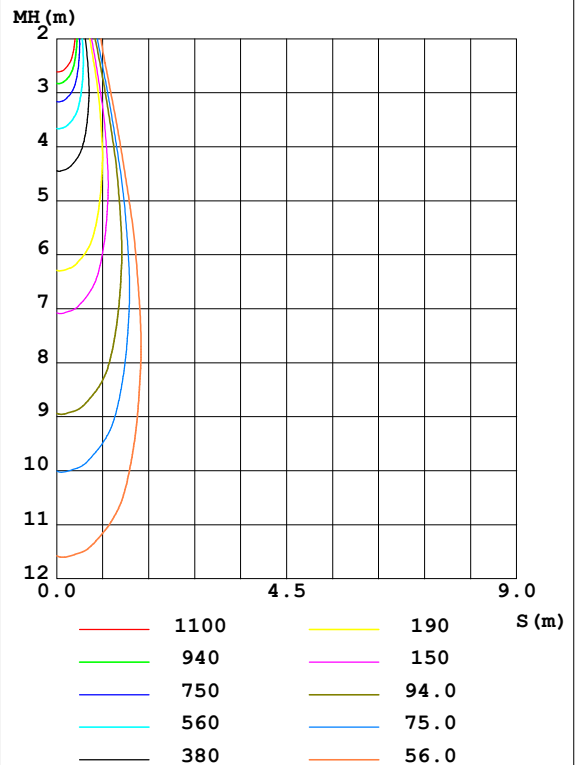
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2023-06-27

$\gamma$  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:

**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:36.659V I:0.3500A P:12.831W 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: 90.58 lm/W			
MODEL	CXB1304-3000K	I <sub>max</sub> (cd)	7531	S/MH (C0/180)	0.29
NOMINAL POWER (W)	12.8	LOR (%)	84.8	S/MH (C90/270)	0.33
RATED VOLTAGE (V)	36.6	TOTAL FLUX (lm)	1162.2	η UP, DN (C0-180)	0.0, 42.5
NOMINAL FLUX (lm)	1370	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 42.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	36.6	η down (%)	84.8	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:**

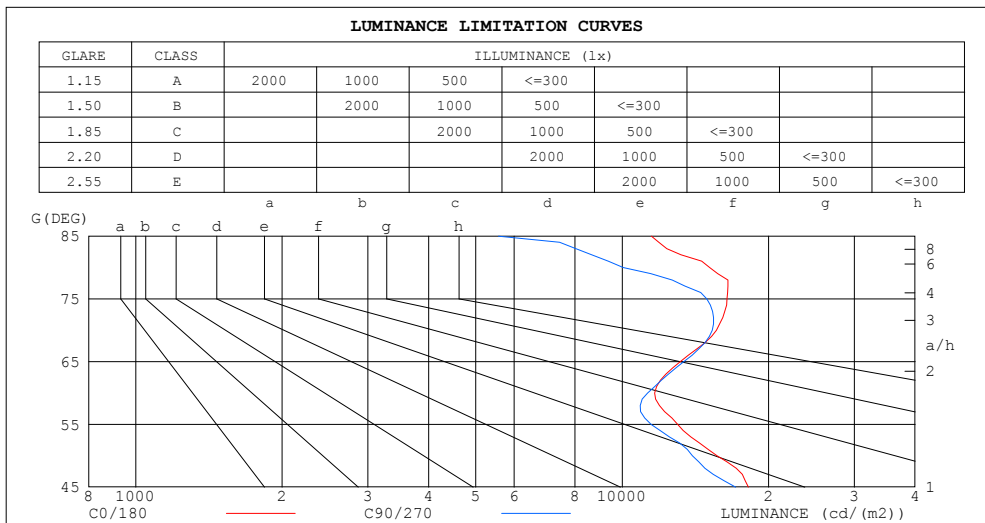
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	4718	4170	3491	2794	2752	3248	3930	4657	0- 10	519.5	519.5	44.7,37.9
20	527.1	458.2	364.7	343.5	341.6	369.3	390.6	451.7	10- 20	389.8	909.4	78.2,66.4
30	141.3	131.2	116.4	105.4	102.4	113.0	122.4	134.0	20- 30	100.5	1010	86.9,73.7
40	61.46	60.30	55.88	51.64	51.33	54.88	57.29	59.05	30- 40	50.03	1060	91.2,77.4
50	40.31	38.73	35.85	33.13	32.28	34.78	37.59	37.43	40- 50	36.26	1096	94.3,80
60	23.31	22.98	22.57	22.12	22.67	22.55	22.25	22.40	50- 60	24.93	1121	96.5,81.8
70	21.36	20.82	20.95	19.28	19.25	20.50	21.02	21.50	60- 70	21.82	1143	98.3,83.4
80	10.52	9.092	6.978	5.599	6.048	7.410	8.817	10.20	70- 80	16.10	1159	99.7,84.6
90	0.3289	0.1604	0.0481	0.0441	0.0562	0.0562	0.0642	0.0842	80- 90	3.155	1162	100,84.8
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: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:36.659V I:0.3500A P:12.831W 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	11493	5570
80	15141	10046
75	16425	14938
70	15614	15311
65	13164	13387
60	11657	11287
55	13008	11467
50	15677	13944
45	18185	17113

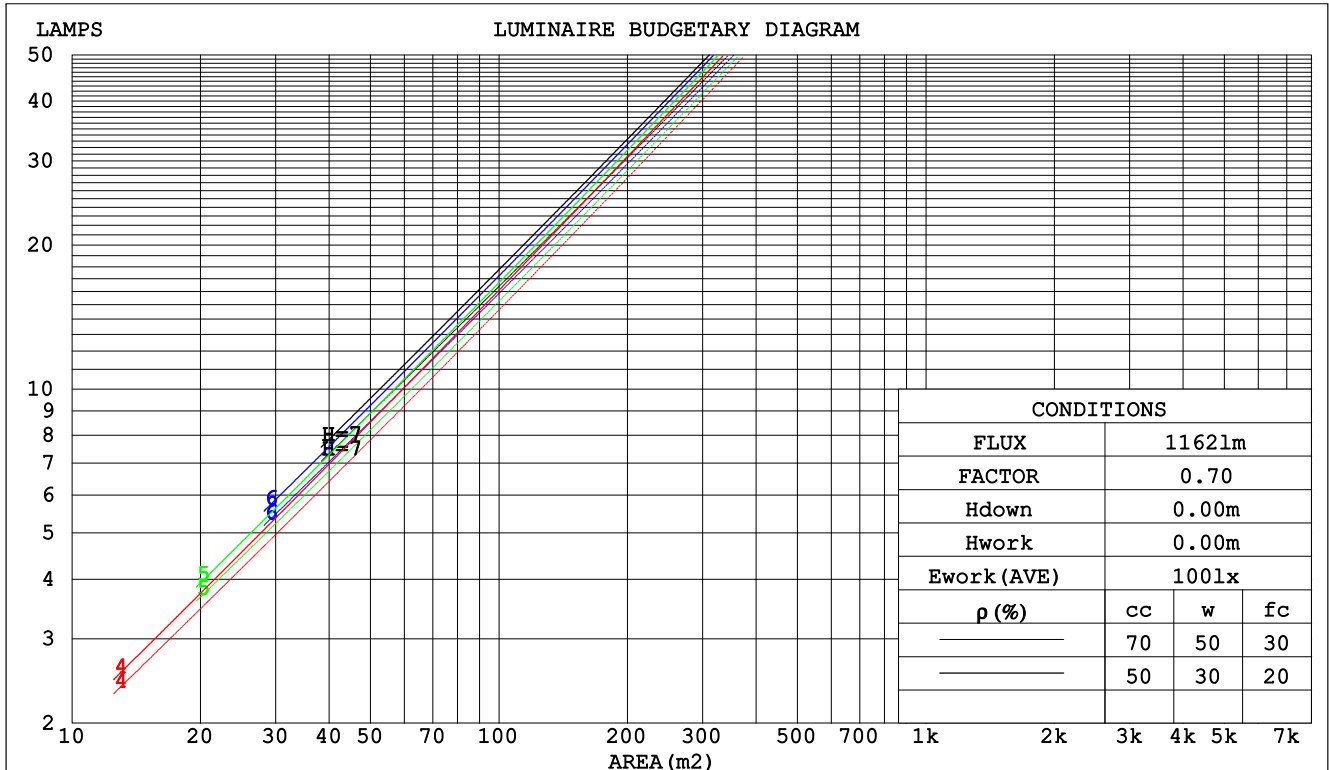
C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2023-06-27

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:36.659V I:0.3500A P:12.831W 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	1.01	1.01	1.01	.99	.99	.99	.94	.94	.94	.90	.90	.90	.87	.87	.87	.85
1.0	.95	.93	.92	.93	.92	.90	.90	.89	.87	.87	.86	.85	.84	.83	.82	.81
2.0	.90	.87	.85	.89	.86	.84	.86	.84	.82	.84	.82	.81	.81	.80	.79	.78
3.0	.86	.83	.80	.85	.82	.79	.83	.80	.78	.81	.79	.77	.79	.77	.76	.75
4.0	.83	.79	.76	.82	.78	.76	.80	.77	.75	.78	.76	.74	.77	.75	.73	.72
5.0	.79	.76	.73	.79	.75	.73	.77	.74	.72	.76	.74	.72	.75	.73	.71	.70
6.0	.77	.73	.70	.76	.73	.70	.75	.72	.70	.74	.71	.69	.73	.71	.69	.68
7.0	.75	.71	.68	.74	.71	.68	.73	.70	.68	.72	.69	.67	.71	.69	.67	.66
8.0	.72	.69	.66	.72	.69	.66	.71	.68	.66	.70	.68	.66	.70	.67	.66	.65
9.0	.71	.67	.65	.70	.67	.65	.70	.67	.64	.69	.66	.64	.68	.66	.64	.63
10.0	.69	.65	.63	.69	.65	.63	.68	.65	.63	.67	.65	.63	.67	.64	.63	.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:36.659V I:0.3500A P:12.831W 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	14.7	15.4	14.9	15.6	15.7	14.5	15.1	14.7	15.3	15.4
3H	16.7	17.4	16.9	17.5	17.7	16.5	17.2	16.8	17.4	17.6
4H	17.7	18.4	18.0	18.6	18.8	17.5	18.1	17.8	18.3	18.5
6H	18.5	19.1	18.8	19.3	19.6	18.0	18.6	18.3	18.8	19.1
8H	18.7	19.3	19.0	19.5	19.8	18.1	18.7	18.4	18.9	19.1
12H	18.8	19.4	19.1	19.6	19.9	18.1	18.7	18.4	18.9	19.2
4H 2H	15.4	16.0	15.6	16.2	16.4	15.2	15.8	15.4	16.0	16.2
3H	17.7	18.2	18.0	18.5	18.7	17.5	18.1	17.8	18.3	18.6
4H	18.8	19.3	19.2	19.6	19.9	18.6	19.1	18.9	19.4	19.7
6H	19.7	20.2	20.1	20.5	20.8	19.2	19.6	19.6	20.0	20.3
8H	19.9	20.4	20.3	20.7	21.1	19.3	19.7	19.7	20.1	20.4
12H	20.1	20.5	20.5	20.8	21.2	19.3	19.7	19.7	20.1	20.5
8H 4H	19.2	19.6	19.6	20.0	20.3	19.0	19.4	19.4	19.8	20.1
6H	20.2	20.6	20.6	20.9	21.4	19.7	20.1	20.1	20.4	20.9
8H	20.5	20.8	20.9	21.2	21.7	19.9	20.2	20.3	20.6	21.0
12H	20.7	20.9	21.1	21.4	21.9	19.9	20.2	20.4	20.6	21.1
12H 4H	19.2	19.6	19.6	20.0	20.4	19.0	19.4	19.4	19.8	20.2
6H	20.2	20.5	20.7	21.0	21.4	19.8	20.1	20.2	20.5	20.9
8H	20.5	20.8	21.0	21.3	21.7	19.9	20.2	20.4	20.7	21.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.1 / - 0.1					+ 0.1 / - 0.2				
2.0H	+ 0.4 / - 0.3					+ 0.4 / - 0.3				

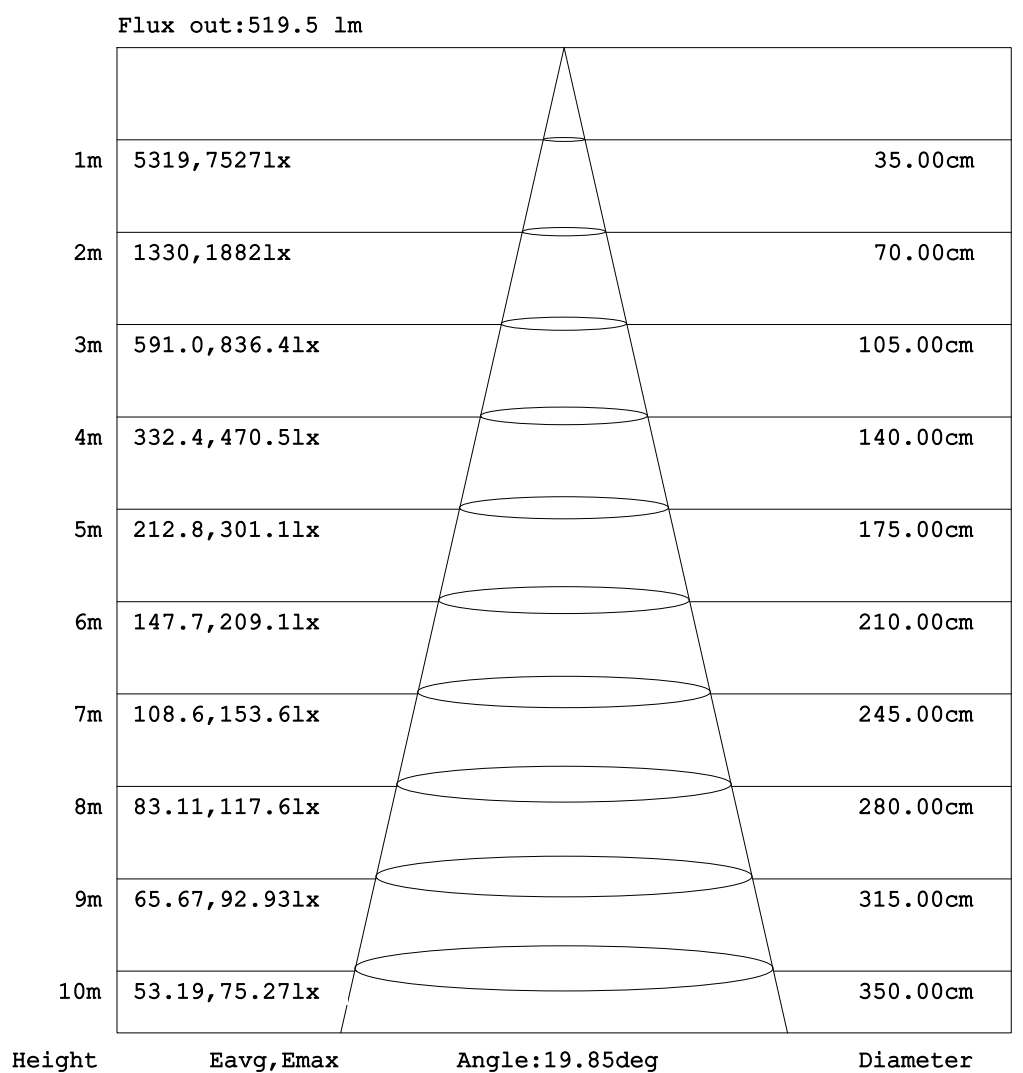
CIE Pub.117, 1370 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)  
Area: 0.004 m2

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:36.659V I:0.3500A P:12.831W 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

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Test Distance:10.214m [K=1.0000]  
Remarks:

