



Light Output Ratio:	88.1%	
Luminaire Power:	12.71 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

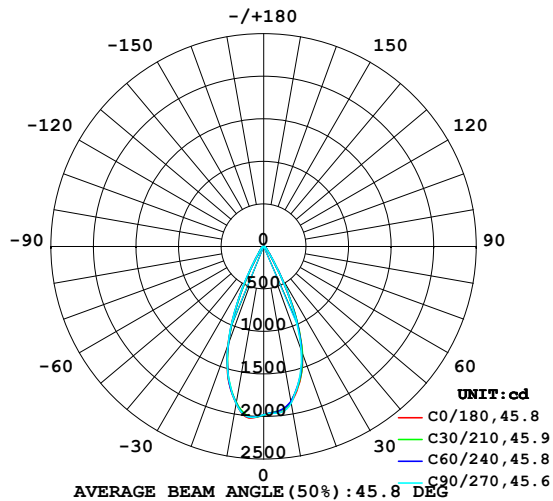
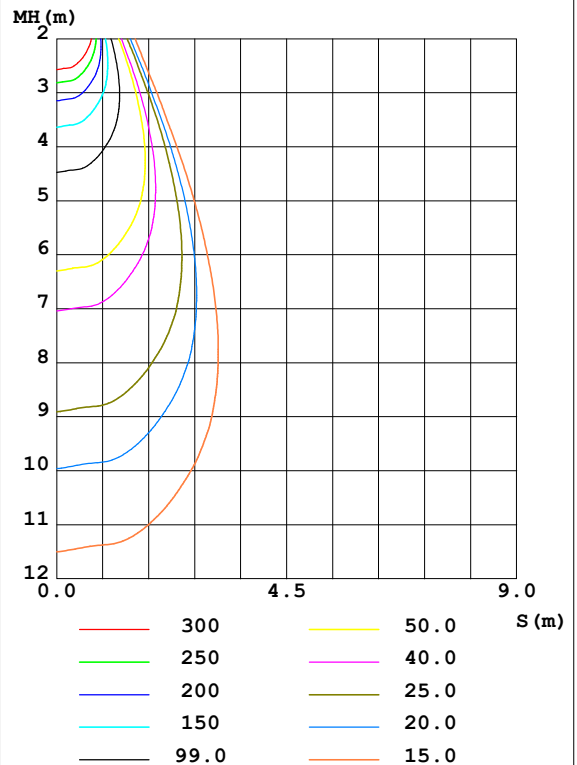
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2023-06-27

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:36.326V I:0.3500A P:12.714W 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: 94.89 lm/W
MODEL	CXB1304-3000K	I _{max} (cd)	2023	S/MH (C0/180)	0.68	
NOMINAL POWER (W)	12.8	LOR (%)	88.1	S/MH (C90/270)	0.68	
RATED VOLTAGE (V)	36.6	TOTAL FLUX (lm)	1206.5	η UP, DN (C0-180)	0.0, 45.1	
NOMINAL FLUX (lm)	1370	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 43.0	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE (V)	36.6	η down (%)	88.1	CIBSE SHR MAX	0.70	

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:

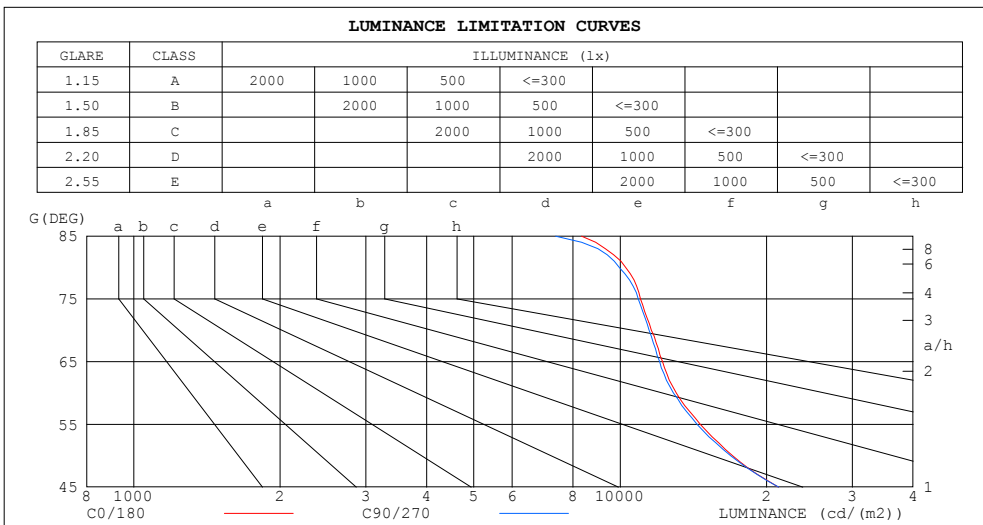
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1862	1851	1869	1872	1875	1866	1876	1894	0- 10	186.3	186.3	15.4,13.6
20	1323	1319	1292	1265	1233	1214	1230	1282	10- 20	445.1	631.4	52.3,46.1
30	409.0	413.3	400.7	349.6	317.3	319.1	337.5	380.6	20- 30	359.1	990.5	82.1,72.3
40	91.50	94.06	92.78	83.63	77.83	76.22	78.14	84.18	30- 40	108.3	1099	91.1,80.2
50	43.77	44.94	43.39	40.92	40.09	39.76	39.45	40.77	40- 50	44.93	1144	94.8,83.5
60	26.10	26.90	25.75	24.59	24.29	24.29	24.02	24.47	50- 60	28.96	1173	97.2,85.6
70	15.86	16.37	15.68	14.95	14.55	14.52	14.50	14.86	60- 70	19.70	1192	98.8,87
80	7.133	7.370	6.924	6.266	5.718	5.686	5.951	6.404	70- 80	11.37	1204	99.8,87.9
90	0.0401	0.1284	0.1284	0.0401	0.0642	0.0602	0.0642	0.0562	80- 90	2.738	1206	100,88.1
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

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:36.326V I:0.3500A P:12.714W 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	8336	7368
80	10270	9969
75	11006	10889
70	11594	11464
65	12222	12049
60	13051	12874
55	14618	14404
50	17023	16877
45	21145	21181

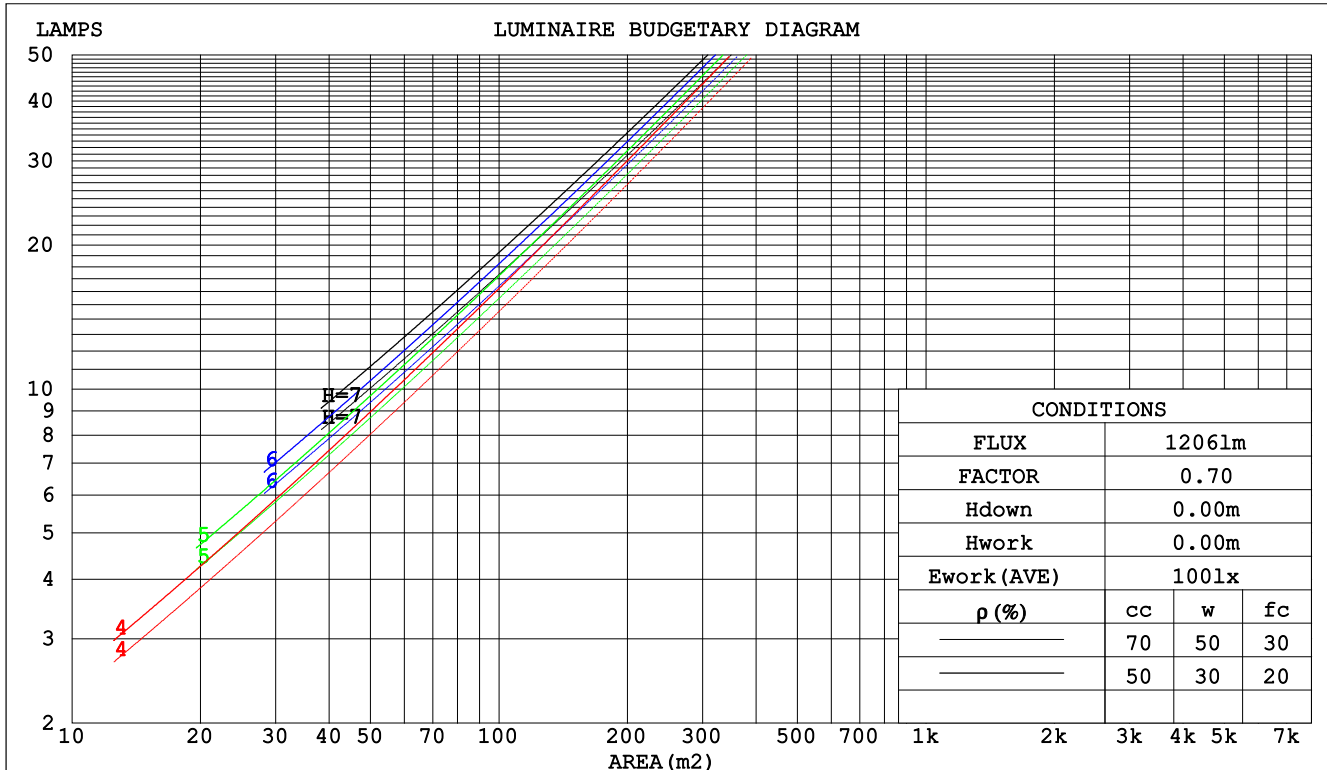
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2023-06-27

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:36.326V I:0.3500A P:12.714W 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	1.05	1.05	1.05	1.02	1.02	1.02	.98	.98	.98	.94	.94	.94	.90	.90	.90	.88
1.0	.98	.95	.94	.96	.94	.92	.92	.91	.89	.89	.88	.87	.86	.85	.84	.82
2.0	.91	.88	.85	.90	.87	.84	.87	.84	.82	.84	.82	.80	.82	.80	.79	.77
3.0	.86	.81	.78	.84	.81	.77	.82	.79	.76	.80	.77	.75	.78	.76	.74	.73
4.0	.81	.76	.72	.80	.75	.72	.78	.74	.71	.76	.73	.70	.74	.72	.70	.68
5.0	.76	.71	.68	.75	.71	.67	.74	.70	.67	.72	.69	.66	.71	.68	.66	.65
6.0	.72	.67	.64	.71	.67	.64	.70	.66	.63	.69	.65	.63	.68	.65	.62	.61
7.0	.69	.64	.60	.68	.63	.60	.67	.63	.60	.66	.62	.59	.65	.62	.59	.58
8.0	.65	.60	.57	.65	.60	.57	.64	.60	.57	.63	.59	.56	.62	.59	.56	.55
9.0	.62	.57	.54	.62	.57	.54	.61	.57	.54	.60	.56	.54	.60	.56	.54	.53
10.0	.59	.55	.52	.59	.55	.52	.58	.54	.51	.58	.54	.51	.57	.54	.51	.50



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

Test:U:36.326V I:0.3500A P:12.714W 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:		
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	16.6	17.5	16.9	17.7	17.9	16.6	17.5	16.8	17.7	17.8
3H	17.4	18.2	17.7	18.4	18.6	17.4	18.2	17.6	18.4	18.6
4H	17.8	18.5	18.0	18.8	19.0	17.7	18.5	18.0	18.7	18.9
6H	18.1	18.8	18.4	19.0	19.3	18.0	18.7	18.3	19.0	19.2
8H	18.2	18.9	18.5	19.1	19.4	18.1	18.8	18.4	19.1	19.3
12H	18.2	18.9	18.5	19.2	19.4	18.1	18.8	18.5	19.1	19.4
4H 2H	16.9	17.7	17.2	17.9	18.1	16.9	17.7	17.1	17.9	18.1
3H	17.9	18.6	18.2	18.8	19.1	17.8	18.5	18.2	18.8	19.1
4H	18.4	19.0	18.7	19.3	19.6	18.3	19.0	18.7	19.3	19.6
6H	18.8	19.4	19.2	19.7	20.0	18.8	19.3	19.1	19.6	20.0
8H	19.0	19.5	19.4	19.8	20.2	18.9	19.4	19.3	19.8	20.1
12H	19.0	19.5	19.5	19.9	20.3	19.0	19.4	19.4	19.8	20.2
8H 4H	18.6	19.1	19.0	19.4	19.8	18.5	19.0	18.9	19.4	19.7
6H	19.1	19.5	19.5	19.9	20.3	19.1	19.5	19.5	19.9	20.3
8H	19.3	19.7	19.8	20.1	20.6	19.3	19.7	19.7	20.1	20.5
12H	19.5	19.8	20.0	20.2	20.7	19.4	19.7	19.9	20.2	20.6
12H 4H	18.6	19.0	19.0	19.4	19.8	18.5	19.0	18.9	19.4	19.7
6H	19.2	19.5	19.6	19.9	20.4	19.1	19.5	19.5	19.9	20.3
8H	19.4	19.7	19.9	20.2	20.6	19.3	19.7	19.8	20.1	20.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.6					+ 0.6 / - 0.6				
1.5H	+ 0.9 / - 0.5					+ 1.0 / - 0.5				
2.0H	+ 0.6 / - 0.5					+ 0.7 / - 0.5				

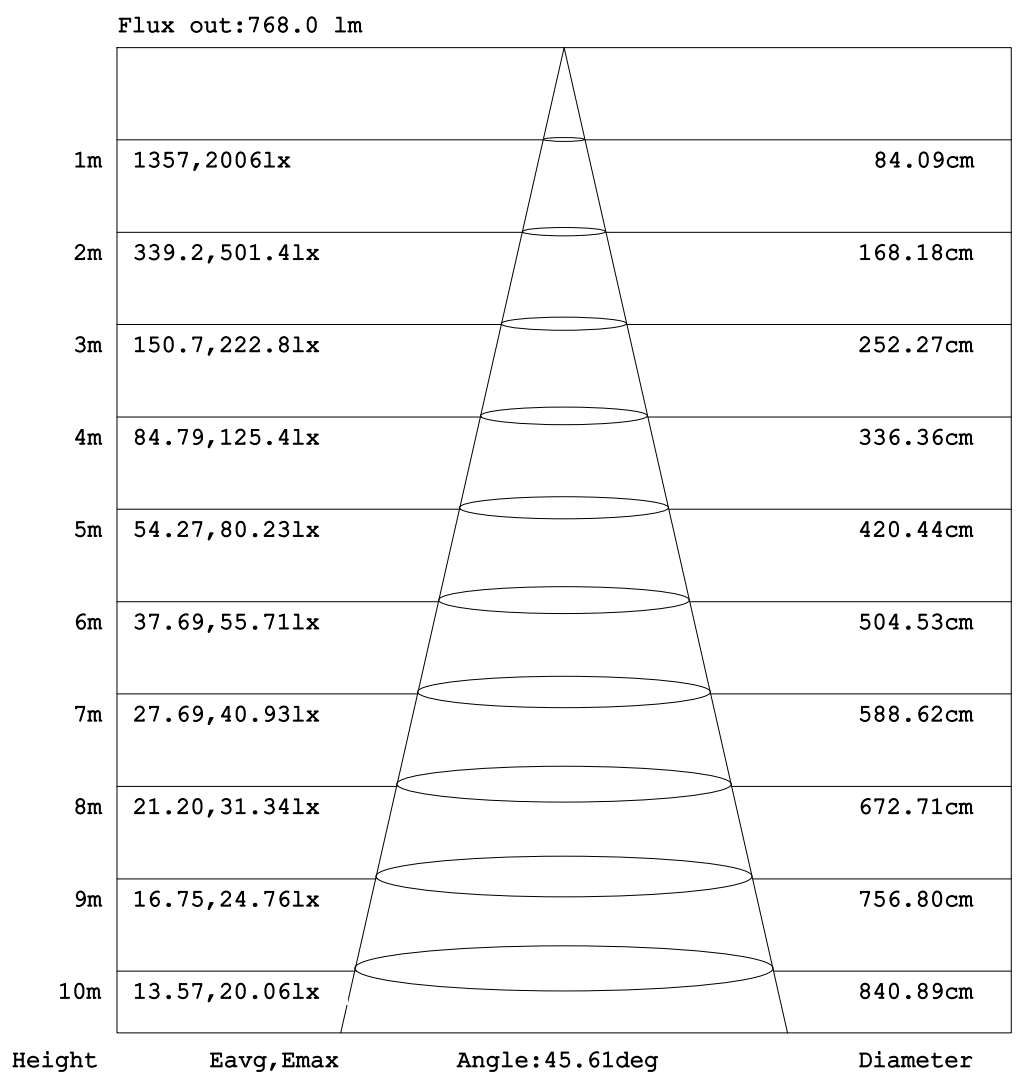
CIE Pub.117, 1370 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.1)
Area: 0.004 m2

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:36.326V I:0.3500A P:12.714W 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:

