



Light Output Ratio:	85.8%	
Luminaire Power:	20.17 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.65	fine grid method.

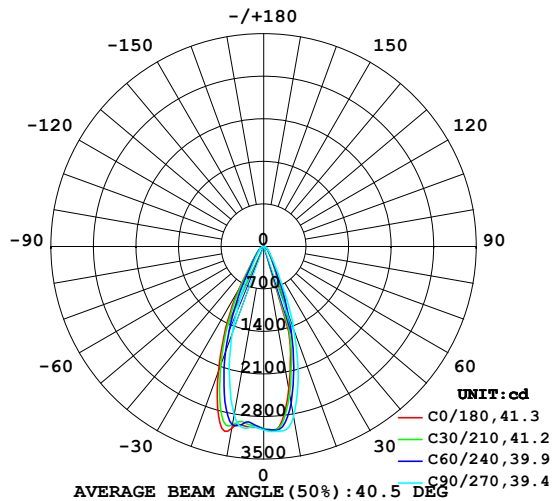
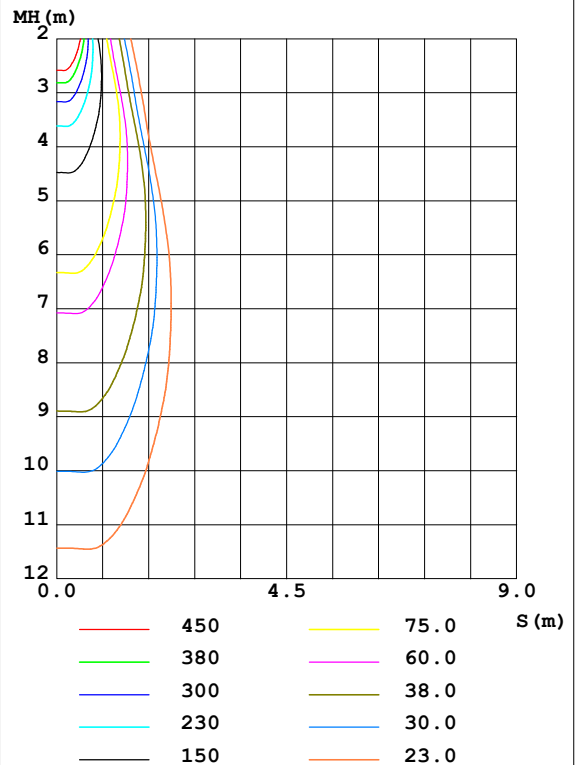
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-06-27

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:19.214V I:1.0499A P:20.173W PF:1.0000 Freq:49.99Hz Lamp Flux:2012x1 lm		
NAME: LYE-8049A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.53 lm/W			
MODEL	CXB1304-3000K	I _{max} (cd)	3107	S/MH (C0/180)	0.76
NOMINAL POWER (W)	20.2	LOR (%)	85.8	S/MH (C90/270)	0.63
RATED VOLTAGE (V)	19.3	TOTAL FLUX (lm)	1725.4	η UP, DN (C0-180)	0.0, 40.4
NOMINAL FLUX (lm)	2012	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 45.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	19.3	η down (%)	85.8	CIBSE SHR MAX	0.65

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)


C Range: 0 - 360DEG
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Operators: DAMIN
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.444
Humidity: 65.0%
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Remarks:

ZONAL FLUX DIAGRAM
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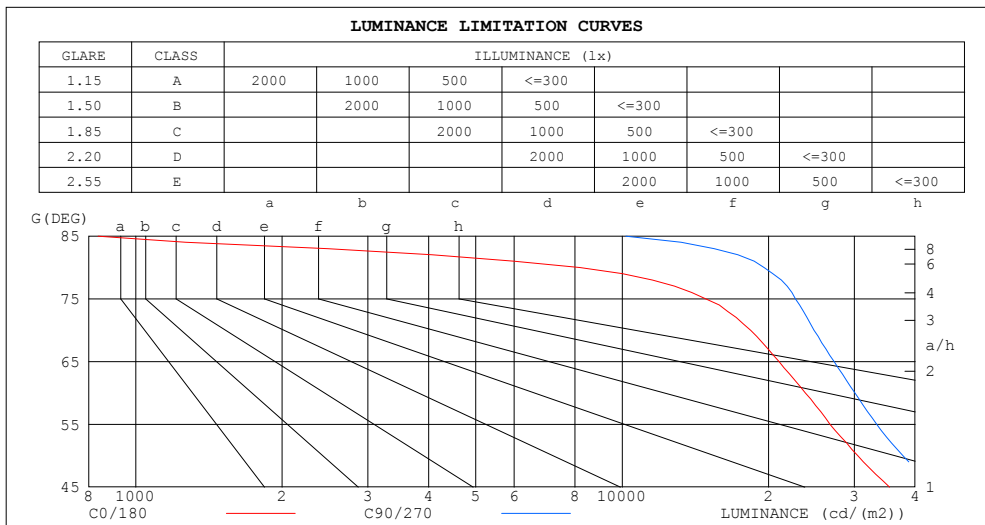
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2389	2537	2842	3056	3039	2978	2816	2517	0- 10	278.5	278.5	16.1,13.8
20	1017	1110	1456	1901	2182	1955	1511	1174	10- 20	606.2	884.6	51.3,44
30	278.4	308.9	392.8	594.3	851.6	674.7	401.9	308.1	20- 30	419.1	1304	75.6,64.8
40	132.9	144.5	170.8	208.6	242.5	218.1	170.7	142.3	30- 40	176.6	1480	85.8,73.6
50	78.47	84.66	97.11	109.5	119.1	112.3	95.29	82.49	40- 50	101.2	1582	91.7,78.6
60	47.60	51.84	60.17	66.57	69.79	66.72	58.62	50.58	50- 60	68.16	1650	95.6,82
70	25.15	27.91	33.94	39.08	41.62	39.28	33.84	27.82	60- 70	45.08	1695	98.2,84.2
80	5.693	8.017	13.60	18.33	20.64	18.89	14.09	8.529	70- 80	24.62	1719	99.7,85.5
90	0.1925	0.1925	0.1845	0.5937	0.8744	0.8704	0.2166	0.2086	80- 90	5.934	1725	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:cd									UNIT:lm		

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 Operators:DAMIN
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.444
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 Test Distance:10.214m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:19.214V I:1.0499A P:20.173W PF:1.0000 Freq:49.99Hz Lamp Flux:2012x1 lm		
NAME: LYE-8049A	TYPE: LED	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 230091
MFR.: Cosine	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	837	10171
80	8195	19576
75	14871	22714
70	18381	24808
65	21010	27294
60	23800	30086
55	26754	33367
50	30518	37771
45	35475	44630

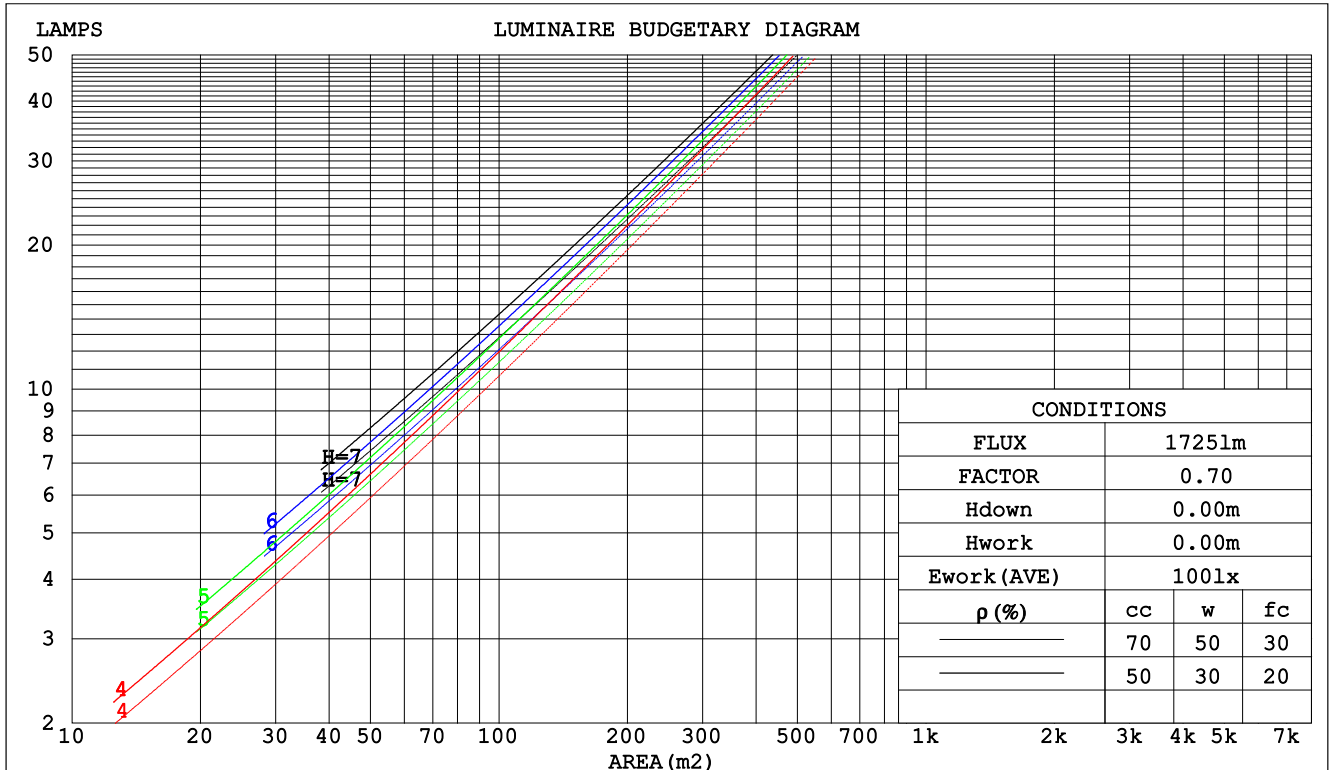
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
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γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.444
 Humidity:65.0%
 Test Distance:10.214m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:19.214V I:1.0499A P:20.173W PF:1.0000 Freq:49.99Hz Lamp Flux:2012x1 lm		
NAME: LYE-8049A	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	.95	.92	.90	.93	.91	.89	.89	.88	.86	.86	.85	.84	.83	.82	.81	.80
2.0	.88	.84	.81	.86	.83	.80	.84	.81	.79	.81	.79	.77	.79	.77	.75	.74
3.0	.82	.78	.74	.81	.77	.74	.79	.75	.73	.77	.74	.71	.75	.72	.70	.69
4.0	.77	.72	.69	.76	.72	.68	.74	.70	.67	.72	.69	.67	.71	.68	.66	.65
5.0	.72	.68	.64	.72	.67	.64	.70	.66	.63	.69	.65	.63	.67	.64	.62	.61
6.0	.69	.64	.60	.68	.63	.60	.67	.62	.59	.65	.62	.59	.64	.61	.59	.57
7.0	.65	.60	.56	.64	.60	.56	.63	.59	.56	.62	.59	.56	.61	.58	.55	.54
8.0	.62	.57	.53	.61	.57	.53	.60	.56	.53	.59	.56	.53	.59	.55	.53	.52
9.0	.59	.54	.51	.58	.54	.51	.58	.53	.51	.57	.53	.50	.56	.53	.50	.49
10.0	.56	.52	.48	.56	.51	.48	.55	.51	.48	.55	.51	.48	.54	.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

Test:U:19.214V I:1.0499A P:20.173W PF:1.0000 Freq:49.99Hz Lamp Flux:2012x1 lm										
NAME: LYE-8049A					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	17.1	18.0	17.3	18.2	18.4	18.0	19.0	18.3	19.1	19.3
3H	17.9	18.8	18.2	19.0	19.2	19.1	19.9	19.3	20.1	20.3
4H	18.2	19.1	18.5	19.3	19.5	19.5	20.3	19.8	20.5	20.7
6H	18.3	19.1	18.6	19.3	19.6	19.8	20.6	20.1	20.8	21.0
8H	18.3	19.0	18.6	19.3	19.6	19.9	20.6	20.2	20.9	21.1
12H	18.3	19.0	18.6	19.2	19.5	19.9	20.6	20.2	20.8	21.1
4H 2H	17.5	18.4	17.8	18.6	18.8	18.3	19.2	18.6	19.4	19.6
3H	18.6	19.3	18.9	19.6	19.8	19.5	20.2	19.8	20.5	20.8
4H	18.9	19.6	19.3	19.9	20.2	20.0	20.7	20.4	21.0	21.3
6H	19.1	19.7	19.5	20.0	20.3	20.4	21.0	20.8	21.3	21.7
8H	19.0	19.6	19.4	19.9	20.3	20.5	21.1	20.9	21.4	21.8
12H	19.0	19.5	19.4	19.9	20.3	20.5	21.0	20.9	21.4	21.8
8H 4H	19.1	19.6	19.5	20.0	20.3	20.1	20.6	20.5	21.0	21.4
6H	19.3	19.7	19.7	20.1	20.5	20.6	21.0	21.0	21.4	21.8
8H	19.2	19.6	19.7	20.1	20.5	20.7	21.1	21.1	21.5	21.9
12H	19.2	19.5	19.7	20.0	20.4	20.7	21.0	21.2	21.5	21.9
12H 4H	19.1	19.6	19.5	19.9	20.3	20.1	20.6	20.5	20.9	21.3
6H	19.3	19.7	19.7	20.1	20.5	20.5	20.9	21.0	21.3	21.8
8H	19.2	19.6	19.7	20.0	20.5	20.6	21.0	21.1	21.4	21.9
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.6					+ 0.4 / - 0.5				
1.5H	+ 0.4 / - 0.4					+ 0.7 / - 0.4				
2.0H	+ 0.7 / - 0.7					+ 0.8 / - 0.6				

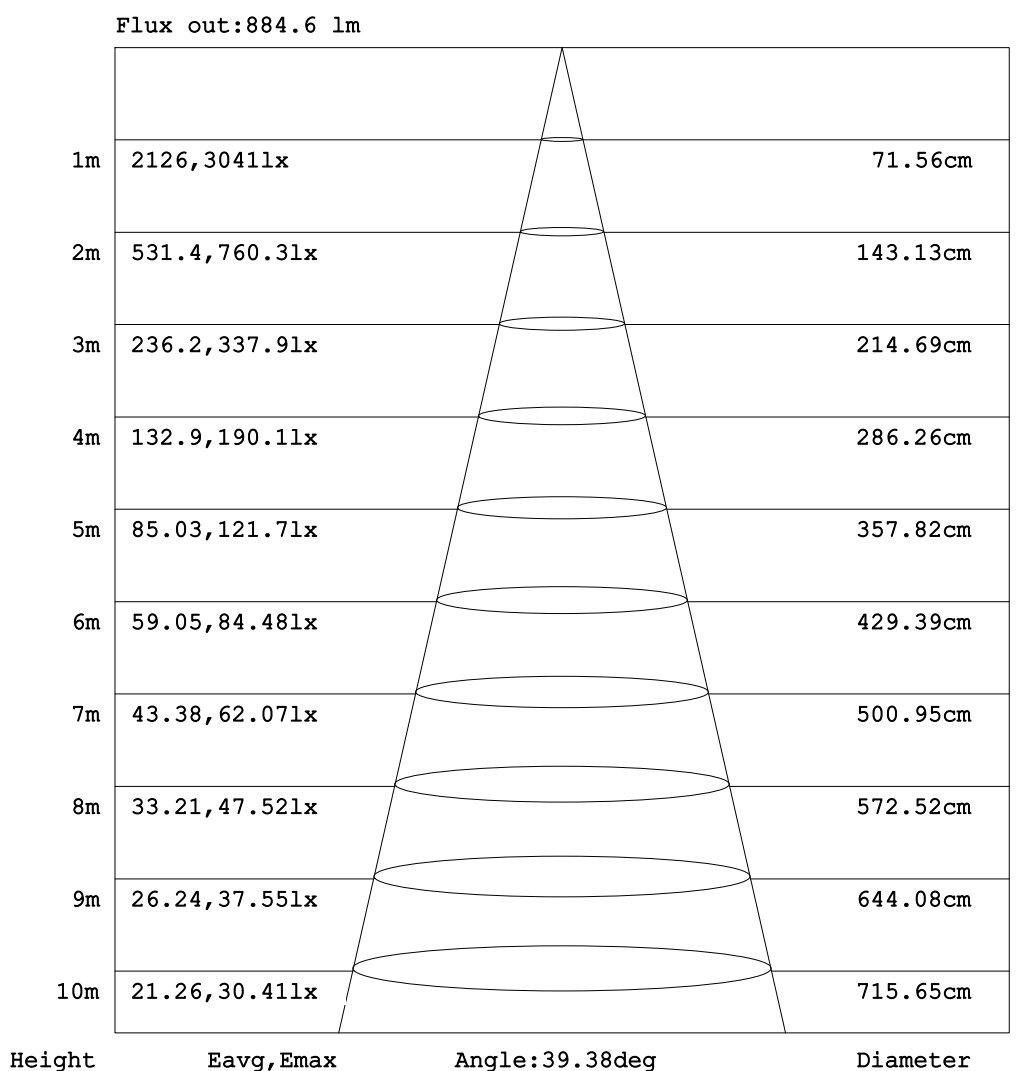
CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.4$)
Area: 0.004 m2

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:19.214V I:1.0499A P:20.173W PF:1.0000 Freq:49.99Hz Lamp Flux:2012x1 lm		
NAME: LYE-8049A	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.

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