



Light Output Ratio:	83.7%	
Luminaire Power:	20.1 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

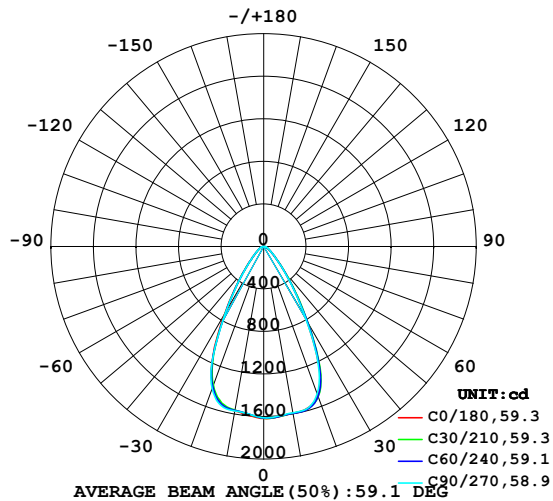
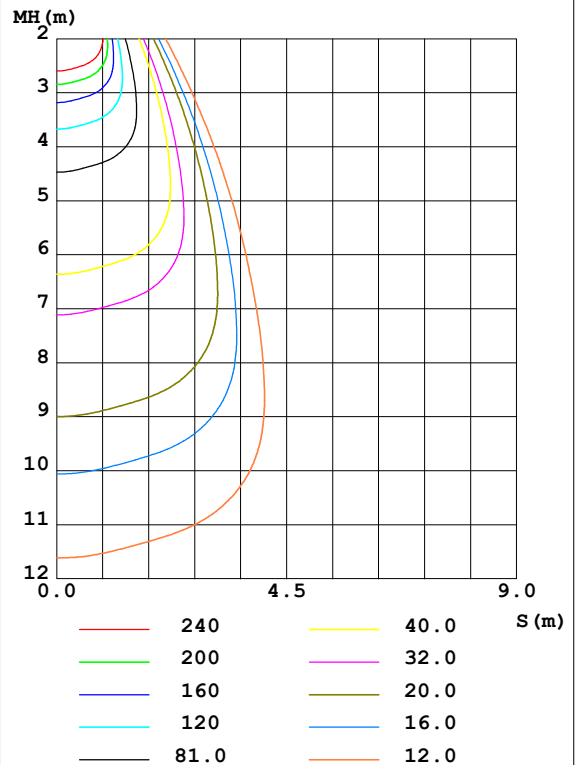
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2023-06-27

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:19.144V I:1.0499A P:20.099W 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:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.79 lm/W			
MODEL	CXB1304-3000K	I _{max} (cd)	1619	S/MH (C0/180)	0.87
NOMINAL POWER (W)	20.2	LOR (%)	83.7	S/MH (C90/270)	0.86
RATED VOLTAGE (V)	19.3	TOTAL FLUX (lm)	1684.1	η UP, DN (C0-180)	0.0, 43.0
NOMINAL FLUX (lm)	2012	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 40.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	19.3	η down (%)	83.7	CIBSE SHR MAX	0.90

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)


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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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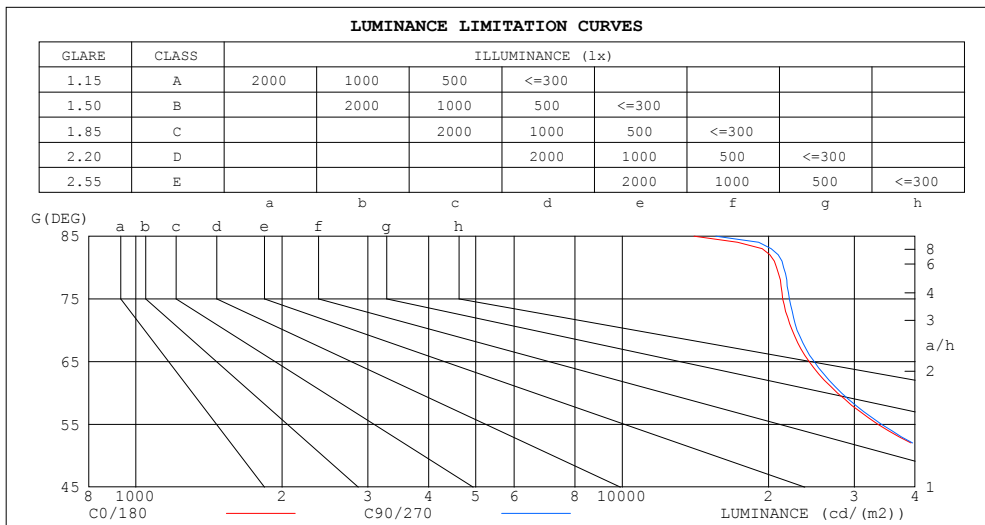
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1592	1593	1588	1573	1570	1564	1570	1575	0- 10	151.6	151.6	9,7,53
20	1489	1500	1474	1432	1408	1397	1423	1451	10- 20	435.2	586.8	34.8,29.2
30	820.1	838.1	811.9	774.2	745.8	723.4	718.2	768.3	20- 30	522.9	1110	65.9,55.2
40	297.5	302.3	291.2	276.1	266.1	257.1	256.5	274.8	30- 40	302.0	1412	83.8,70.2
50	113.6	115.3	113.9	109.2	104.3	101.9	103.8	108.6	40- 50	135.0	1547	91.8,76.9
60	55.38	56.31	56.49	54.48	51.81	50.90	52.51	54.27	50- 60	68.59	1615	95.9,80.3
70	30.62	31.13	31.31	30.08	28.55	28.12	29.05	29.99	60- 70	40.22	1656	98.3,82.3
80	14.42	14.87	14.92	13.79	12.60	12.29	12.82	13.71	70- 80	22.80	1678	99.7,83.4
90	0.3129	0.2046	0.1685	0.1805	0.2006	0.1965	0.1925	0.2206	80- 90	5.766	1684	100,83.7
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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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:

LUMINANCE LIMITATION CURVES

Test:U:19.144V I:1.0499A P:20.099W 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	14049	15566
80	20767	21474
75	21390	22066
70	22379	22887
65	24243	24823
60	27691	28247
55	33554	34137
50	44200	44314
45	62970	62237

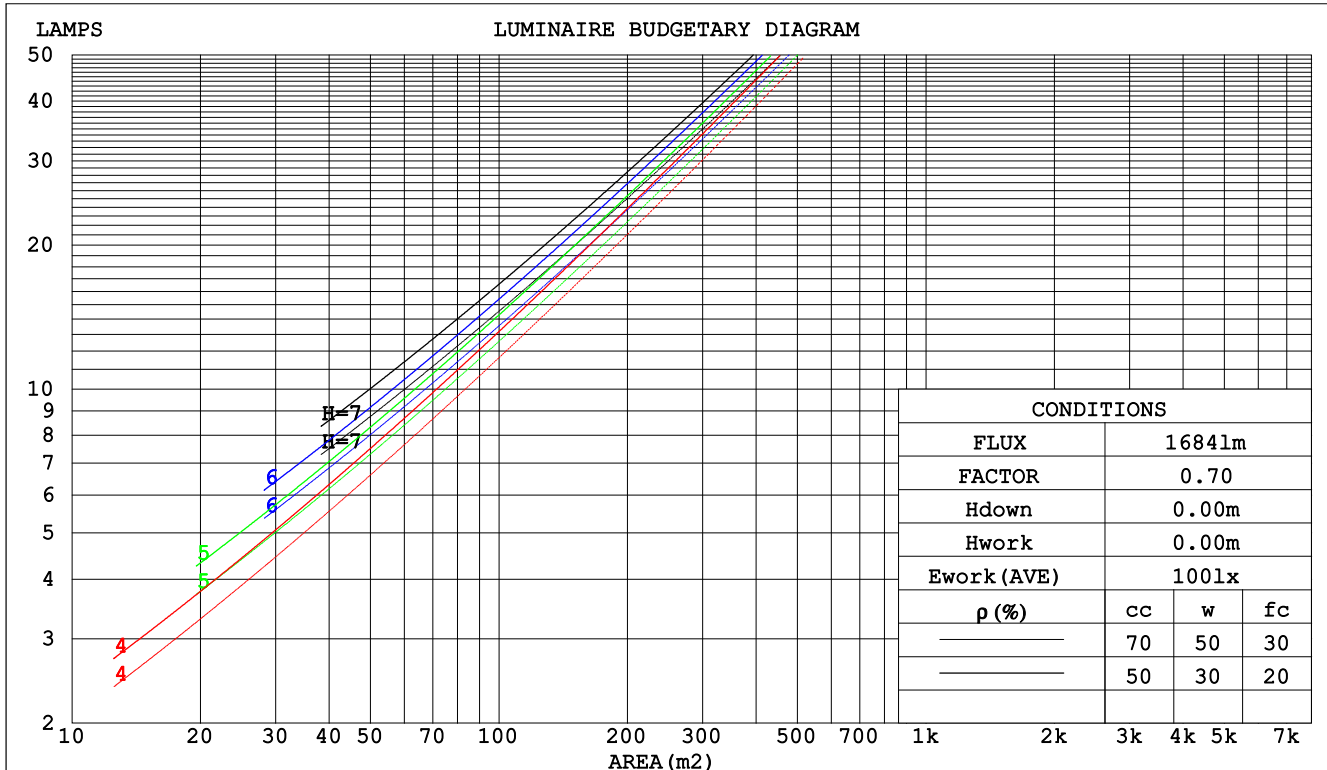
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.444
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:19.144V I:1.0499A P:20.099W 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	.00	.00	.00	.97	.97	.97	.93	.93	.93	.89	.89	.89	.85	.85	.85	.84
1.0	.92	.89	.87	.90	.88	.86	.86	.85	.83	.83	.82	.81	.80	.79	.78	.77
2.0	.84	.81	.78	.83	.80	.77	.80	.77	.75	.78	.75	.73	.75	.74	.72	.70
3.0	.78	.73	.70	.77	.73	.69	.75	.71	.68	.73	.70	.67	.71	.68	.66	.65
4.0	.72	.67	.64	.71	.67	.63	.70	.66	.62	.68	.64	.62	.66	.63	.61	.60
5.0	.67	.62	.58	.67	.62	.58	.65	.61	.57	.64	.60	.57	.62	.59	.56	.55
6.0	.63	.58	.54	.62	.57	.54	.61	.56	.53	.60	.56	.53	.59	.55	.52	.51
7.0	.59	.54	.50	.58	.53	.50	.57	.53	.49	.56	.52	.49	.55	.52	.49	.48
8.0	.55	.50	.46	.55	.50	.46	.54	.49	.46	.53	.49	.46	.52	.48	.46	.44
9.0	.52	.47	.43	.52	.47	.43	.51	.46	.43	.50	.46	.43	.49	.46	.43	.42
10.0	.49	.44	.41	.49	.44	.41	.48	.44	.40	.47	.43	.40	.47	.43	.40	.39



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
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 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:19.144V I:1.0499A P:20.099W 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	20.7	21.7	20.9	21.9	22.1	20.6	21.7	20.9	21.8	22.0
3H	21.1	22.0	21.3	22.2	22.4	21.0	22.0	21.3	22.2	22.4
4H	21.3	22.2	21.5	22.4	22.6	21.2	22.1	21.5	22.4	22.6
6H	21.4	22.3	21.8	22.5	22.8	21.4	22.3	21.7	22.5	22.8
8H	21.5	22.3	21.8	22.6	22.9	21.5	22.3	21.8	22.6	22.9
12H	21.5	22.3	21.9	22.6	22.9	21.5	22.3	21.9	22.6	22.9
4H 2H	20.7	21.7	21.0	21.9	22.1	20.7	21.6	21.0	21.8	22.0
3H	21.3	22.1	21.6	22.4	22.6	21.3	22.0	21.6	22.3	22.6
4H	21.6	22.3	22.0	22.6	22.9	21.6	22.3	21.9	22.6	22.9
6H	21.9	22.5	22.3	22.9	23.2	21.9	22.5	22.3	22.9	23.2
8H	22.0	22.6	22.4	23.0	23.3	22.0	22.6	22.4	23.0	23.4
12H	22.1	22.6	22.5	23.0	23.4	22.1	22.6	22.5	23.0	23.4
8H 4H	21.7	22.3	22.1	22.6	23.0	21.7	22.3	22.1	22.6	23.0
6H	22.1	22.6	22.6	23.0	23.4	22.1	22.6	22.6	23.0	23.4
8H	22.3	22.7	22.8	23.2	23.6	22.3	22.7	22.8	23.2	23.6
12H	22.4	22.8	22.9	23.2	23.7	22.4	22.8	22.9	23.2	23.7
12H 4H	21.7	22.2	22.1	22.6	23.0	21.7	22.2	22.1	22.6	23.0
6H	22.1	22.6	22.6	23.0	23.4	22.1	22.6	22.6	23.0	23.4
8H	22.4	22.7	22.8	23.2	23.6	22.4	22.7	22.8	23.2	23.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.0 / - 1.3					+ 1.0 / - 1.2				
1.5H	+ 1.9 / - 1.0					+ 1.9 / - 1.0				
2.0H	+ 1.6 / - 0.9					+ 1.5 / - 0.8				

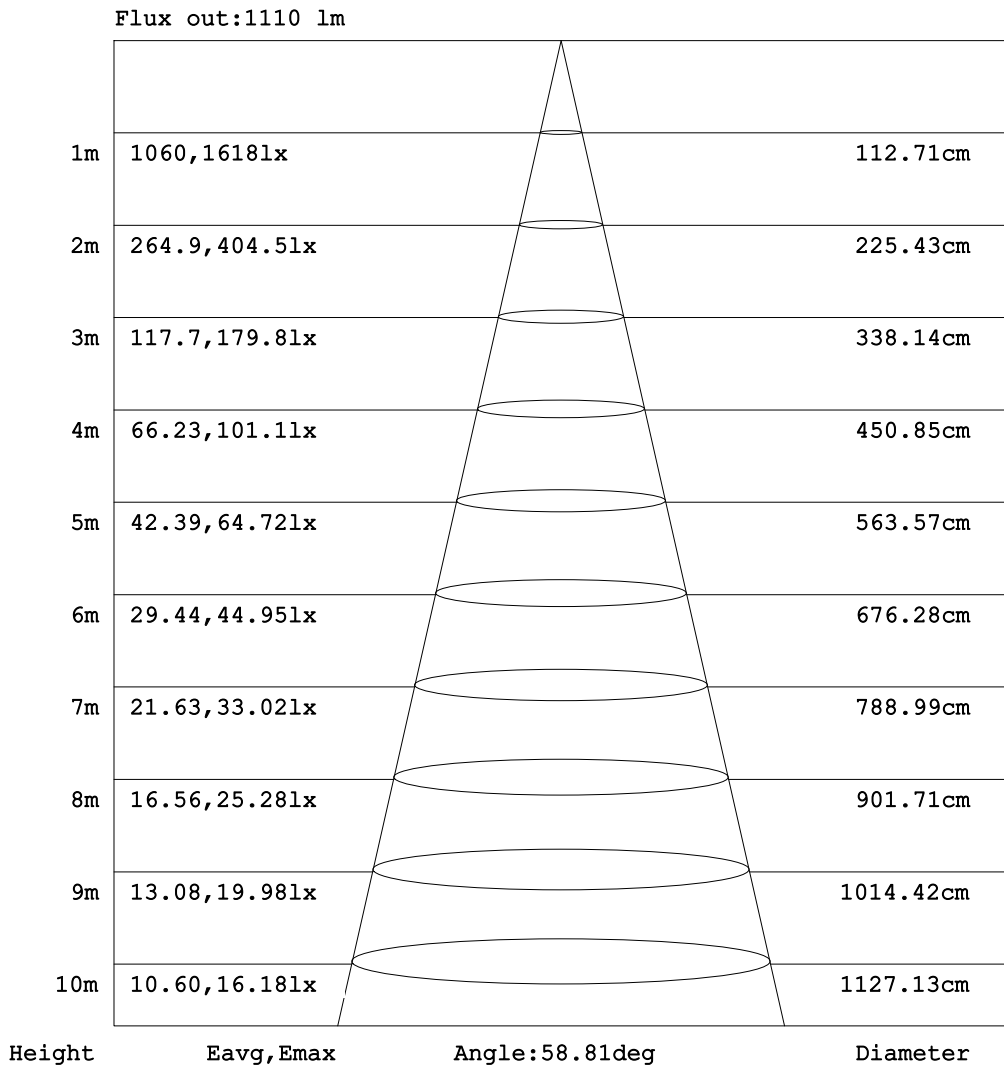
CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.4$)
Area: 0.004 m2

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

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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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