



Light Output Ratio:	90.3%	
Luminaire Power:	20.15 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.70	fine grid method.

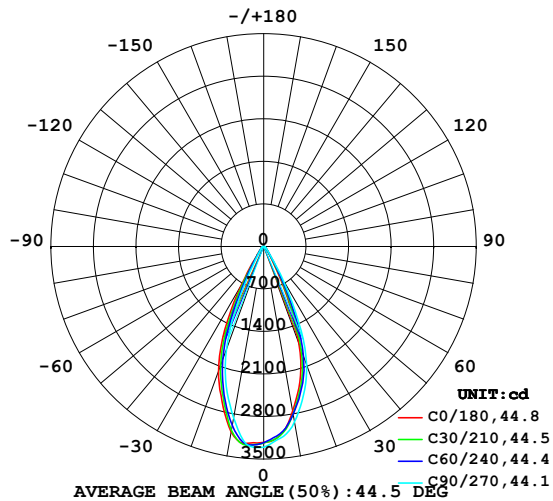
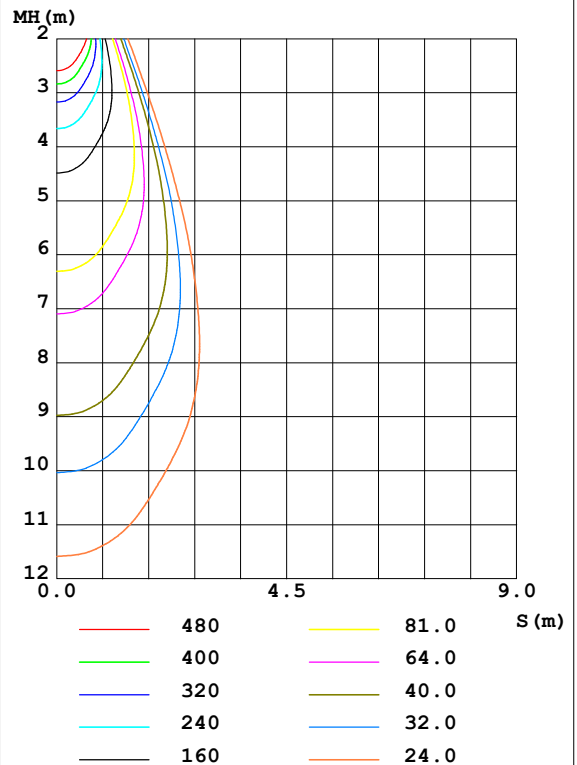
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2023-06-27

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:19.197V I:1.0499A P:20.155W 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: 90.19 lm/W			
MODEL	CXB1304-3000K	I _{max} (cd)	3311	S/MH (C0/180)	0.73
NOMINAL POWER(W)	20.2	LOR(%)	90.3	S/MH (C90/270)	0.64
RATED VOLTAGE(V)	19.3	TOTAL FLUX(lm)	1817.7	η UP,DN(C0-180)	0.0,46.3
NOMINAL FLUX(lm)	2012	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,44.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	19.3	η down (%)	90.3	CIBSE SHR MAX	0.70

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)


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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%
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Remarks:

ZONAL FLUX DIAGRAM
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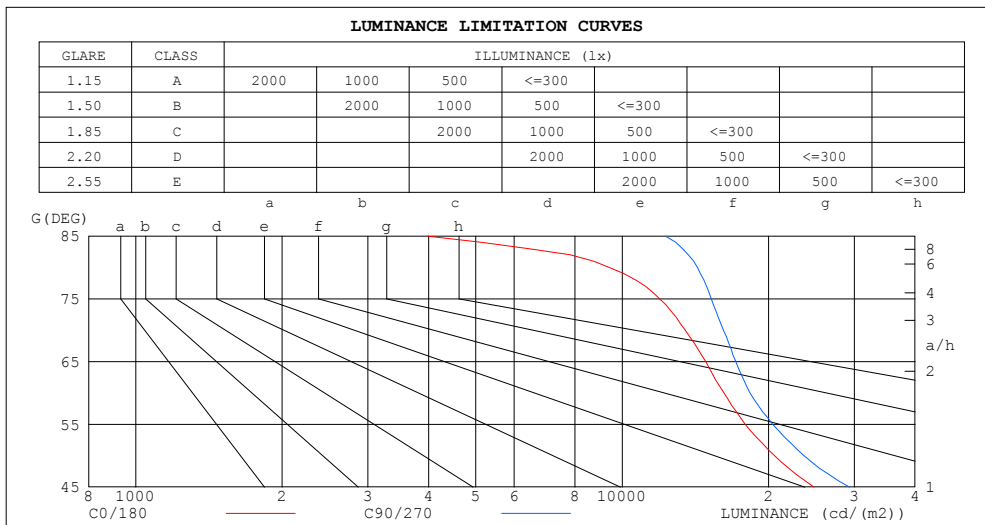
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	2753	2800	2934	3108	3097	3030	2862	2715	0- 10	296.2	296.2	16.3,14.7
20	1707	1865	2066	2206	2177	2027	1797	1663	10- 20	681.9	978.1	53.8,48.6
30	376.8	476.8	632.3	728.5	737.9	560.1	378.2	338.1	20- 30	539.1	1517	83.5,75.4
40	101.6	111.0	127.5	134.8	135.7	121.4	104.1	96.24	30- 40	152.9	1670	91.9,83
50	52.90	55.75	60.82	61.69	61.95	59.08	54.05	50.87	40- 50	61.62	1732	95.3,86.1
60	32.39	33.88	36.65	37.30	37.10	35.78	33.31	31.57	50- 60	39.86	1772	97.5,88.1
70	18.46	20.02	22.09	22.77	22.82	21.43	19.17	18.00	60- 70	27.13	1799	99,89.4
80	6.542	8.124	9.930	10.63	10.38	8.863	7.029	6.143	70- 80	15.19	1814	99.8,90.2
90	0.0963	0.0923	0.2407	0.5656	0.1604	0.1364	0.1284	0.1284	80- 90	3.713	1818	100,90.3
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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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.444
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 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:19.197V I:1.0499A P:20.155W 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	3984	12279
80	9419	14296
75	11947	15249
70	13497	16147
65	14854	17125
60	16197	18323
55	17913	20405
50	20575	23654
45	24785	29348

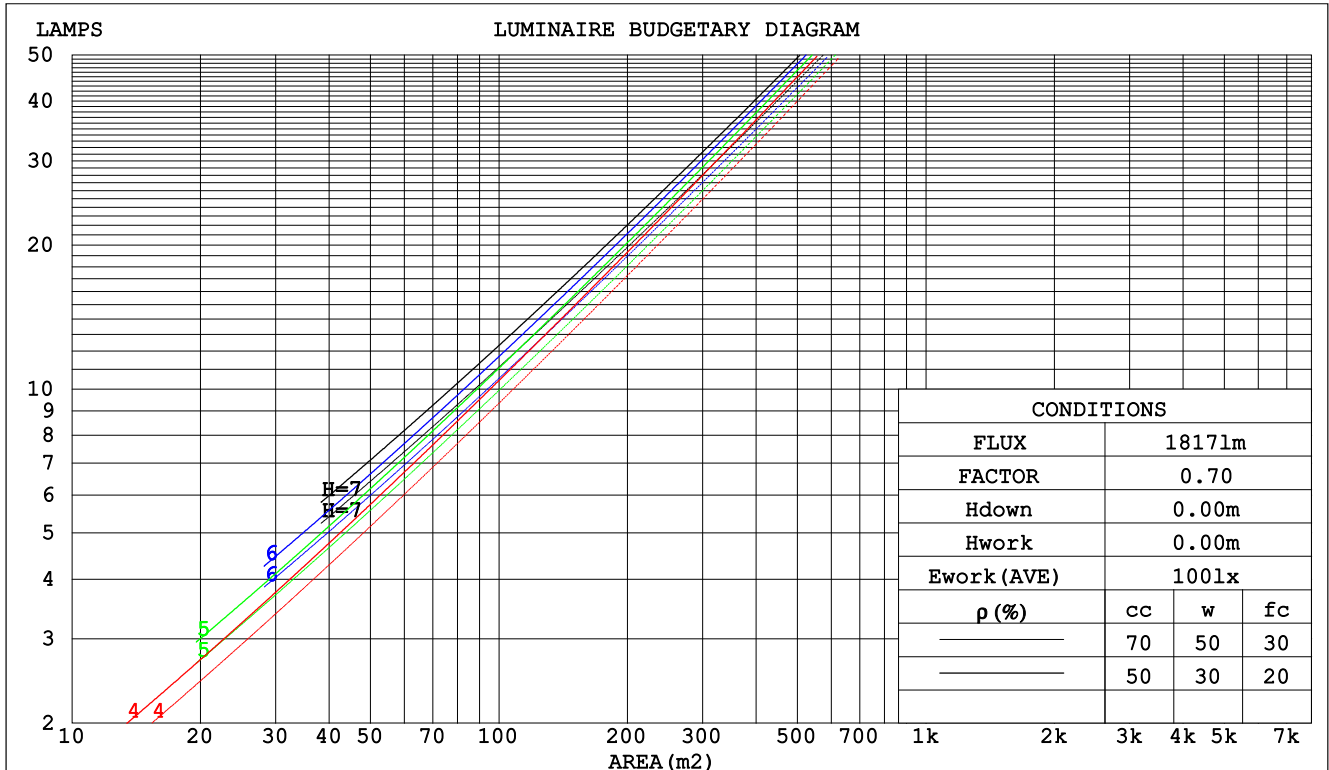
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 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:19.197V I:1.0499A P:20.155W 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	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	.96	.96	.96	.92	.92	.92	.90
1.0	1.00	.98	.96	.98	.96	.95	.95	.93	.92	.91	.90	.89	.88	.87	.86	.85
2.0	.94	.90	.87	.92	.89	.86	.89	.87	.85	.87	.85	.83	.84	.83	.81	.80
3.0	.88	.84	.81	.87	.83	.80	.85	.81	.79	.82	.80	.77	.80	.78	.76	.75
4.0	.83	.79	.75	.82	.78	.75	.80	.77	.74	.78	.75	.73	.77	.74	.72	.71
5.0	.79	.74	.70	.78	.73	.70	.76	.72	.69	.75	.71	.69	.73	.70	.68	.67
6.0	.75	.70	.66	.74	.69	.66	.73	.69	.65	.71	.68	.65	.70	.67	.65	.63
7.0	.71	.66	.63	.70	.66	.62	.69	.65	.62	.68	.65	.62	.67	.64	.61	.60
8.0	.68	.63	.59	.67	.63	.59	.66	.62	.59	.65	.62	.59	.64	.61	.59	.57
9.0	.65	.60	.57	.64	.60	.56	.63	.59	.56	.63	.59	.56	.62	.58	.56	.55
10.0	.62	.57	.54	.61	.57	.54	.61	.57	.54	.60	.56	.54	.59	.56	.53	.52



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:19.197V I:1.0499A P:20.155W 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	14.8	15.7	15.0	15.9	16.0	15.8	16.7	16.1	16.9	17.0
3H	15.6	16.4	15.9	16.6	16.8	16.6	17.4	16.9	17.6	17.8
4H	16.0	16.7	16.3	17.0	17.2	17.0	17.8	17.3	18.0	18.2
6H	16.2	16.9	16.5	17.1	17.4	17.3	18.0	17.6	18.3	18.5
8H	16.2	16.9	16.5	17.2	17.4	17.4	18.1	17.7	18.4	18.6
12H	16.2	16.9	16.5	17.1	17.4	17.5	18.1	17.8	18.4	18.7
4H 2H	15.2	15.9	15.4	16.1	16.4	16.0	16.8	16.3	17.0	17.2
3H	16.2	16.9	16.5	17.1	17.4	17.0	17.7	17.4	18.0	18.2
4H	16.6	17.3	17.0	17.5	17.9	17.5	18.1	17.9	18.4	18.7
6H	17.0	17.5	17.3	17.8	18.2	18.0	18.5	18.3	18.8	19.2
8H	17.0	17.5	17.4	17.9	18.2	18.1	18.6	18.5	19.0	19.3
12H	17.0	17.5	17.4	17.8	18.2	18.2	18.7	18.6	19.0	19.4
8H 4H	16.8	17.3	17.2	17.7	18.0	17.7	18.1	18.0	18.5	18.9
6H	17.2	17.7	17.7	18.0	18.5	18.2	18.6	18.6	19.0	19.4
8H	17.3	17.7	17.8	18.1	18.6	18.4	18.8	18.8	19.2	19.6
12H	17.4	17.7	17.8	18.1	18.6	18.5	18.9	19.0	19.3	19.8
12H 4H	16.8	17.3	17.2	17.7	18.0	17.6	18.1	18.0	18.5	18.8
6H	17.3	17.6	17.7	18.1	18.5	18.2	18.6	18.6	19.0	19.4
8H	17.4	17.7	17.9	18.1	18.6	18.4	18.7	18.9	19.2	19.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.6					+ 0.7 / - 0.6				
1.5H	+ 0.7 / - 0.5					+ 1.3 / - 0.4				
2.0H	+ 0.6 / - 0.5					+ 0.7 / - 0.4				

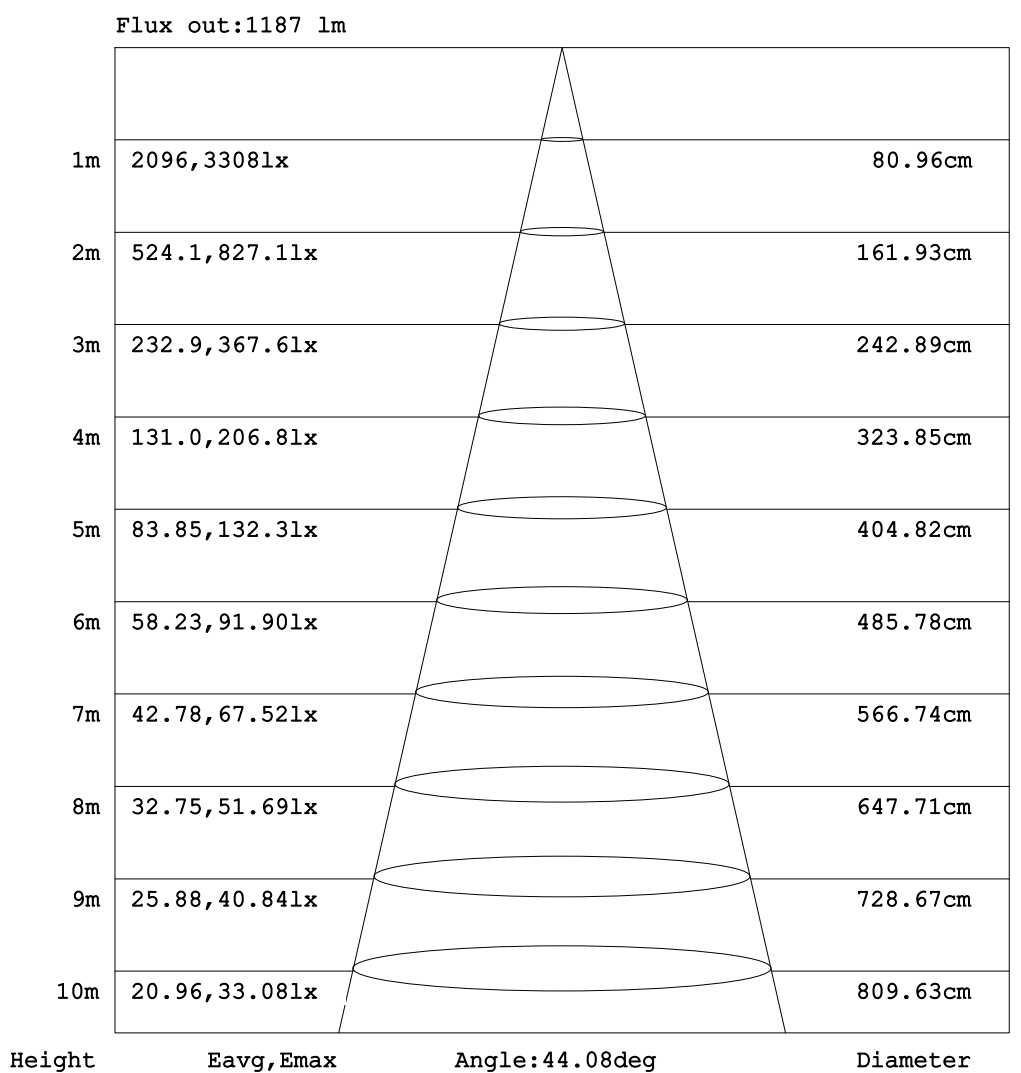
CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.004 m2

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:19.197V I:1.0499A P:20.155W 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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