



Light Output Ratio:	86.2%	
Luminaire Power:	20.28 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

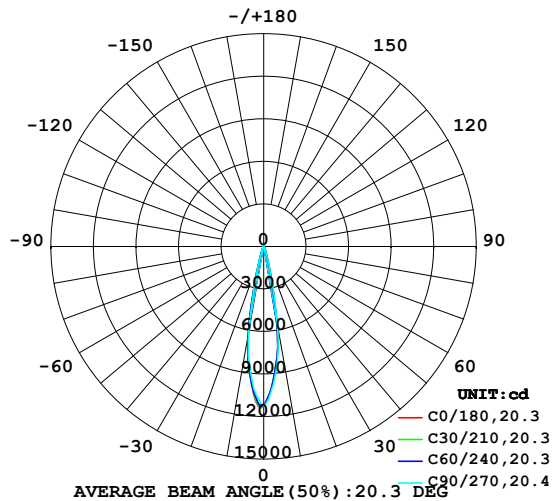
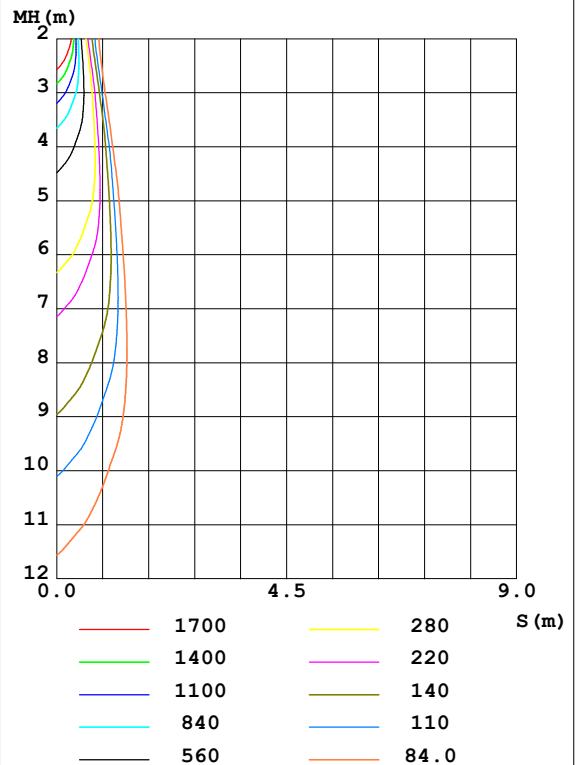
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2023-06-27

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:19.316V I:1.0499A P:20.280W 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: 85.56 lm/W
MODEL	CXB1304-3000K	I _{max} (cd)	11378	S/MH (C0/180)	0.34	
NOMINAL POWER (W)	20.2	LOR (%)	86.2	S/MH (C90/270)	0.33	
RATED VOLTAGE (V)	19.3	TOTAL FLUX (lm)	1735.1	η UP, DN (C0-180)	0.0, 42.0	
NOMINAL FLUX (lm)	2012	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 44.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	19.3	η down (%)	86.2	CIBSE SHR MAX	0.30	

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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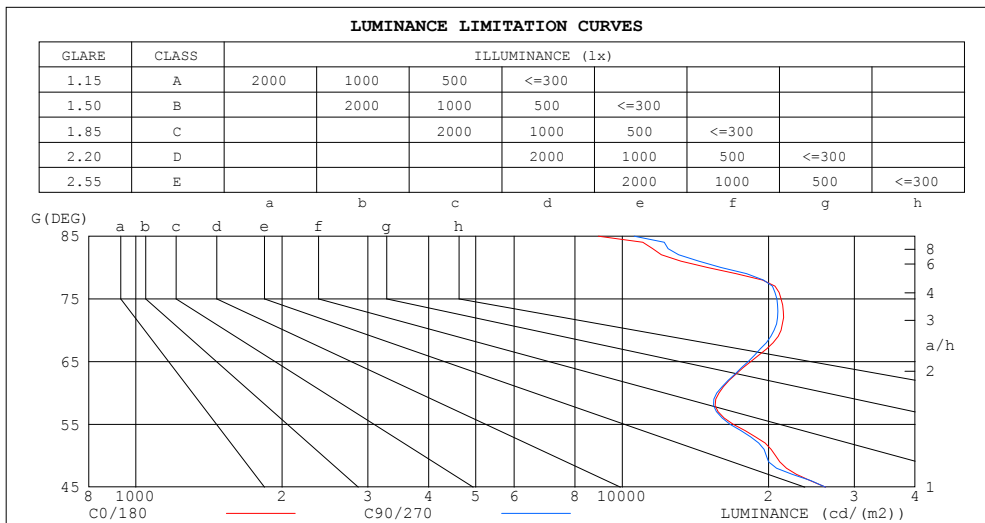
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	535.8	531.0	553.9	592.6	630.8	636.6	610.7	560.0	0- 10	786.9	786.9	45.3,39.1
20	56.65	58.26	59.56	60.24	61.35	58.87	55.61	54.64	10- 20	573.2	1360	78.4,67.6
30	17.84	17.72	18.06	18.81	19.34	18.95	18.34	17.75	20- 30	151.5	1512	87.1,75.1
40	8.461	8.111	8.108	8.507	8.639	8.424	8.420	8.433	30- 40	75.58	1587	91.5,78.9
50	5.313	5.056	5.089	5.419	5.420	5.260	5.372	5.453	40- 50	54.24	1641	94.6,81.6
60	3.160	3.121	3.129	3.148	3.177	3.170	3.134	3.153	50- 60	36.08	1677	96.7,83.4
70	2.902	2.856	2.808	2.910	2.927	2.893	2.868	2.870	60- 70	30.40	1708	98.4,84.9
80	1.041	1.046	1.110	1.279	1.334	1.221	1.149	1.088	70- 80	22.71	1731	99.7,86
90	0.0112	0.0092	0.0064	0.0104	0.0128	0.0116	0.0128	0.0116	80- 90	4.508	1735	100,86.2
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:×10cd									UNIT:lm		

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:

LUMINANCE LIMITATION CURVES

Test:U:19.316V I:1.0499A P:20.280W 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	8935	10588
80	14986	15982
75	21227	20795
70	21211	20523
65	18366	18151
60	15802	15643
55	16918	16664
50	20663	19791
45	26179	26176

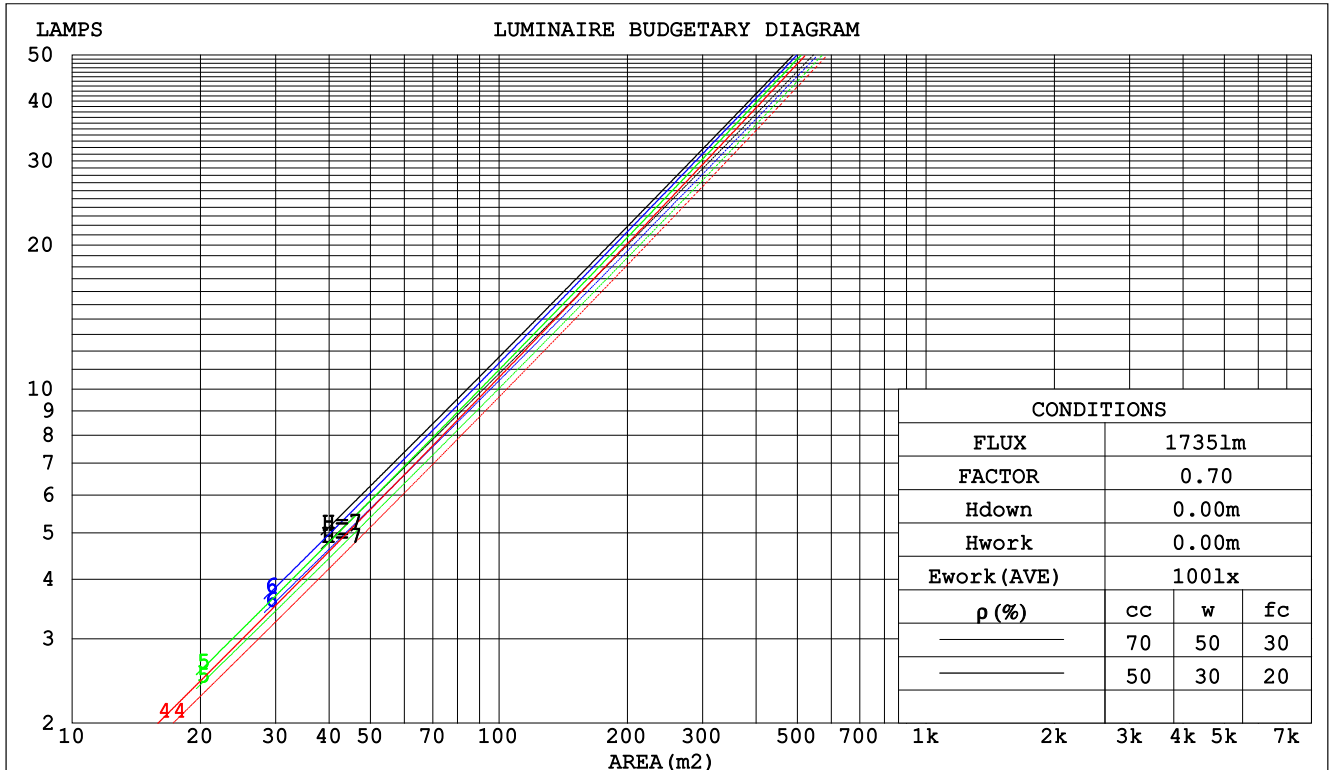
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 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.444
 Humidity:65.0%
 Test Distance:10.214m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:19.316V I:1.0499A P:20.280W 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	1.03	1.03	1.03	1.00	1.00	1.00	.96	.96	.96	.92	.92	.92	.88	.88	.88	.86
1.0	.97	.95	.93	.95	.93	.92	.91	.90	.89	.88	.87	.86	.85	.85	.84	.82
2.0	.92	.89	.87	.90	.88	.86	.88	.86	.84	.85	.83	.82	.83	.81	.80	.79
3.0	.88	.84	.82	.86	.83	.81	.84	.82	.80	.82	.80	.78	.80	.79	.77	.76
4.0	.84	.80	.78	.83	.80	.77	.81	.79	.76	.80	.77	.75	.78	.76	.75	.74
5.0	.81	.77	.75	.80	.77	.74	.79	.76	.74	.78	.75	.73	.76	.74	.72	.71
6.0	.78	.75	.72	.78	.74	.72	.77	.74	.71	.76	.73	.71	.74	.72	.70	.69
7.0	.76	.72	.70	.75	.72	.70	.75	.71	.69	.74	.71	.69	.73	.70	.69	.68
8.0	.74	.70	.68	.73	.70	.68	.73	.70	.67	.72	.69	.67	.71	.69	.67	.66
9.0	.72	.68	.66	.72	.68	.66	.71	.68	.66	.70	.68	.66	.70	.67	.65	.65
10.0	.70	.67	.65	.70	.67	.64	.69	.66	.64	.69	.66	.64	.68	.66	.64	.63



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:19.316V I:1.0499A P:20.280W 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	14.1	14.8	14.3	14.9	15.1	14.0	14.6	14.2	14.8	14.9
3H	16.1	16.8	16.4	17.0	17.1	16.0	16.6	16.2	16.8	17.0
4H	17.1	17.7	17.4	17.9	18.1	16.9	17.6	17.2	17.8	18.0
6H	17.7	18.2	17.9	18.5	18.7	17.5	18.1	17.8	18.4	18.6
8H	17.7	18.3	18.0	18.5	18.8	17.6	18.2	17.9	18.5	18.7
12H	17.8	18.3	18.1	18.6	18.8	17.7	18.2	18.0	18.5	18.8
4H 2H	14.8	15.4	15.0	15.6	15.8	14.7	15.3	14.9	15.5	15.7
3H	17.1	17.6	17.4	17.9	18.2	17.0	17.5	17.3	17.8	18.0
4H	18.2	18.7	18.5	19.0	19.3	18.0	18.5	18.4	18.8	19.1
6H	18.8	19.3	19.2	19.6	19.9	18.7	19.2	19.1	19.5	19.8
8H	18.9	19.3	19.3	19.7	20.0	18.8	19.3	19.2	19.6	20.0
12H	19.0	19.3	19.4	19.7	20.1	18.9	19.3	19.3	19.7	20.0
8H 4H	18.6	19.0	18.9	19.3	19.7	18.4	18.8	18.8	19.2	19.6
6H	19.3	19.6	19.7	20.0	20.4	19.2	19.5	19.6	19.9	20.3
8H	19.4	19.7	19.8	20.1	20.5	19.3	19.6	19.8	20.0	20.5
12H	19.5	19.7	19.9	20.2	20.6	19.4	19.7	19.9	20.1	20.6
12H 4H	18.5	18.9	19.0	19.3	19.7	18.4	18.8	18.8	19.2	19.6
6H	19.3	19.6	19.7	20.0	20.4	19.2	19.5	19.6	19.9	20.3
8H	19.4	19.7	19.9	20.1	20.6	19.4	19.6	19.8	20.1	20.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
2.0H	+ 0.5 / - 0.4					+ 0.5 / - 0.3				

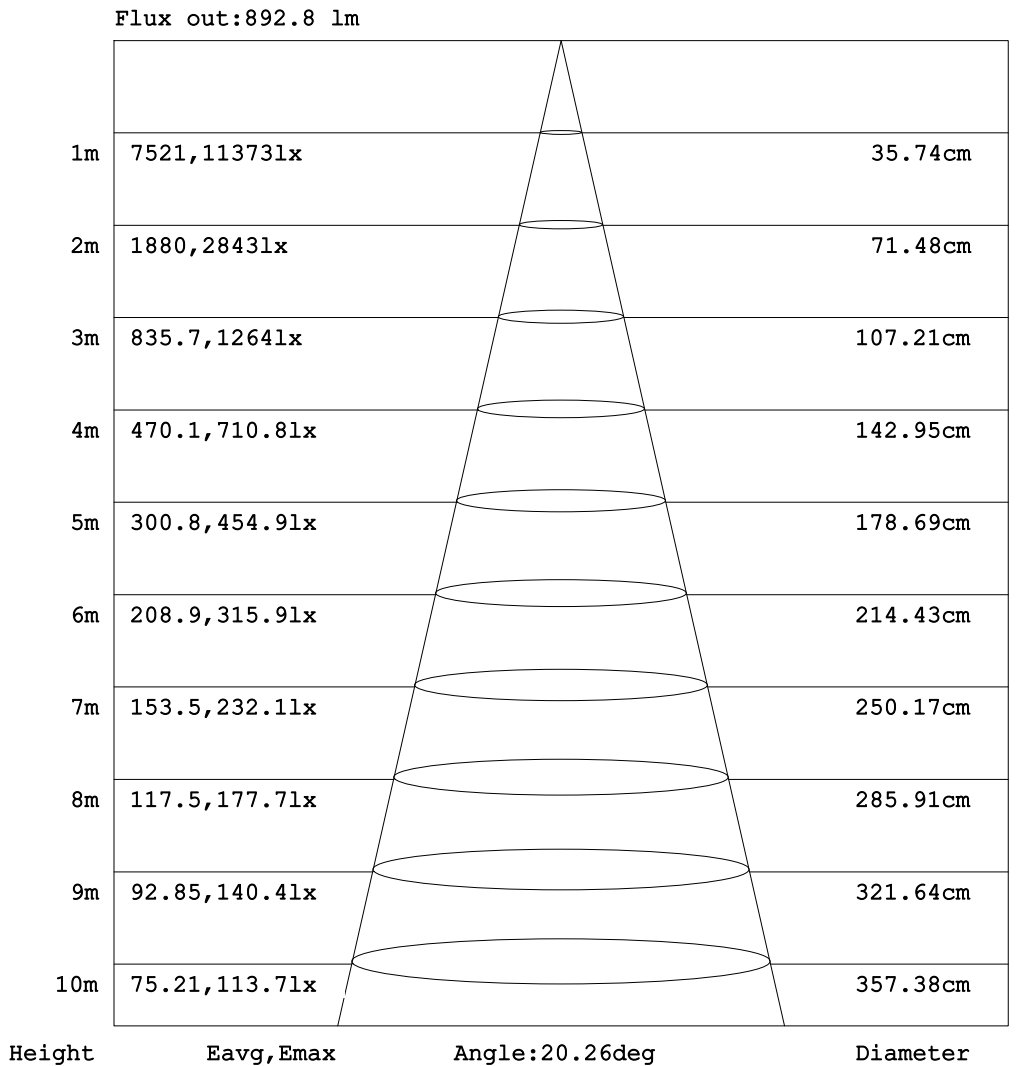
CIE Pub.117, 2012 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.4$)
Area: 0.004 m2

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:19.316V I:1.0499A P:20.280W 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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