

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: FAIL-SAFE

Report Number: 11402.0

Luminaire Tested: **MHFP-TL22-400MH (PROLUME)**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: 11402.0
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: MHFP-TL22-400MH (PROLUME)
Description: 22"DIA PROLUME HIGH-BAY LUMINAIRE
WHITE FITTER w/22"DIA PRISMATIC REFLECTOR
CONICAL LENS
Light Source: 1/400W COATED BT37 MH
M59 M400/C/U
Ballast/Driver: -

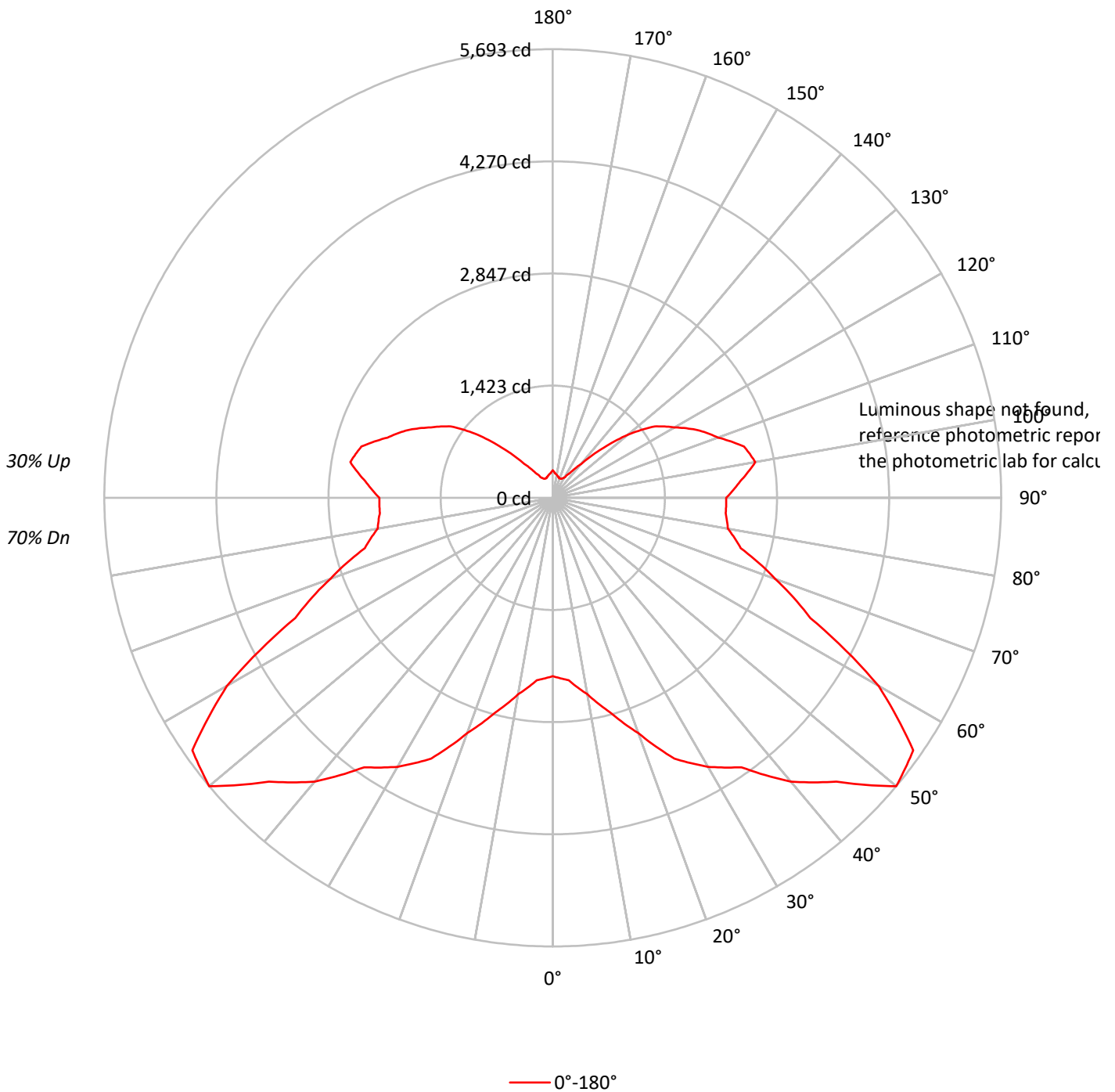
Summary

Lumens per Lamp: 36000 (1 lamp)
Luminaire Lumens: 32880.0 lumens
Efficiency: 91.3%
Efficacy: 82.2 lumens/watt
Spacing Criteria (0/90/45): 2.76 / 2.76 / 2.49
Luminous Opening: (L: 1.9 ' x W: 0 ' x H: 1.29 '
CIE Type: Semi-Direct

Input Watts (W): 400
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	102	102	102	102	97	97	97	97	86	86	86		77	77	77		68	68	68	64
1	90	85	80	75	85	80	75	71	71	67	64		63	60	57		55	53	51	47
2	80	72	64	58	75	67	61	55	60	54	50		53	48	45		46	43	40	36
3	72	61	53	46	67	58	50	44	51	45	40		45	40	36		39	35	32	28
4	65	53	44	38	61	50	42	36	44	38	32		39	33	29		34	29	26	23
5	59	47	38	31	55	44	36	30	39	32	27		34	29	24		30	25	21	19
6	54	41	32	26	51	39	31	25	34	28	23		30	25	20		26	22	18	15
7	50	37	28	22	46	35	27	21	31	24	19		27	21	17		24	19	15	13
8	46	33	25	19	43	31	24	18	28	21	17		24	19	15		21	17	13	11
9	43	30	22	17	40	28	21	16	25	19	14		22	17	13		19	15	12	10
10	40	27	20	15	37	26	19	14	23	17	13		20	15	11		18	13	10	8

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp	0°	Flux	
0°-10°	228.6	0.7	0.6	0°	2263	
10°-20°	811.8	2.5	2.3	5°	2324	229
20°-30°	1676.8	5.1	4.7	15°	2820	812
30°-40°	2675.6	8.1	7.4	25°	3650	1677
40°-50°	3992.7	12.1	11.1	35°	4174	2676
50°-60°	4847.8	14.7	13.5	45°	5093	3993
60°-70°	3713.4	11.3	10.3	55°	5586	4848
70°-80°	2697.2	8.2	7.5	65°	3608	3713
80°-90°	2418.8	7.4	6.7	75°	2471	2697
90°-100°	2615.1	8.0	7.3	85°	2204	1815
100°-110°	2612.4	7.9	7.3	90°	2202	1233
110°-120°	2009.6	6.1	5.6	95°	2388	2004
120°-130°	1393.2	4.2	3.9	105°	2514	2612
130°-140°	692.7	2.1	1.9	115°	2034	2010
140°-150°	260.4	0.8	0.7	125°	1581	1393
150°-160°	126.7	0.4	0.4	135°	871	693
160°-170°	77.5	0.2	0.2	145°	392	260
170°-180°	29.7	0.1	0.1	155°	267	127
0°-30°	2717.1	8.3	7.5	165°	273	78
0°-40°	5392.7	16.4	15.0	175°	314	30
0°-60°	14233.2	43.3	39.5	180°	351	
0°-90°	23062.6	70.1	64.1			
90°-120°	7237.1	22.0	20.1			
90°-150°	9583.4	29.1	26.6			
90°-180°	9817.0	29.9	27.3			
0°-180°	32880.0	100.0	91.3			



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CANDELA DISTRIBUTION (FULL):

	0°
0°	2263
5°	2324
10°	2532
15°	2820
20°	3178
25°	3650
30°	3941
35°	4174
40°	4700
45°	5093
50°	5693
55°	5586
60°	4777
65°	3608
70°	3007
75°	2471
80°	2258
85°	2204
90°	2202
95°	2388
100°	2611
105°	2514
110°	2234
115°	2034
120°	1787
125°	1581
130°	1246
135°	871
140°	560
145°	392
150°	298
155°	267
160°	259
165°	273
170°	295
175°	314
180°	351

(END OF REPORT)