

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: P20740

Luminaire Tested: **FMSLP-X12-4-7500-7-50-UNV-82/88-ED**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P20740  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FMSLP-X12-4-7500-7-50-UNV-82/88-ED  
Description: FAIL-SAFE LED CONFINEMENT-CORRECTIONAL FIXTURE WITH 0.187 PRISMATIC POLYCARBONATE LENS, 0.5 CLEAR POLYCARBONATE LENS, AND WHITE INTERNAL REFLECTOR ASSEMBLY AND 14GA WHITE STEELHOUSING ----ABSOLUTE PHOTOMETRY IS BASED ON CALIBRATION FACTORS CREATED USING LAB LUMEN STANDARDS IN GONIOPHOTOMETER WITH TEST DISTANCE OF 28.75 FEET----  
Light Source: (6)SMT LED BARS WITH 48 LEDS PER BAR 5000K  
(6)LIGHT BARS 68 WATTS  
Ballast/Driver: (6)MAGTECH ELECTRONIC LED DRIVER  
(6)LP1020

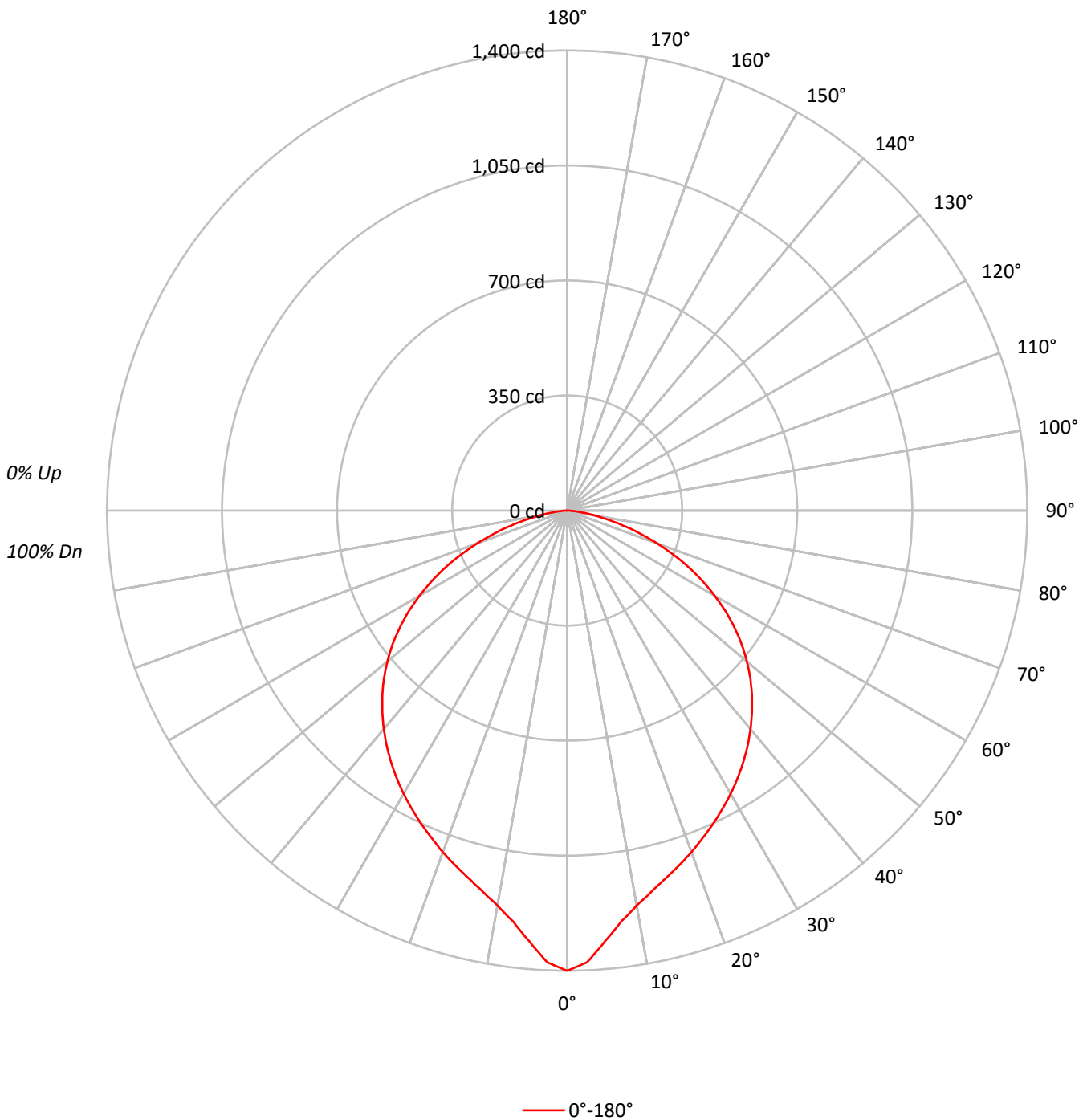
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3310.7 lumens  
Efficiency: N/A  
Efficacy: 32.0 lumens/watt  
Spacing Criteria (0/90/45): 1.06 / 1.06 / 1.26  
Luminous Opening: Rectangular (W 0.67' x L: 3.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 103.4  
Input Voltage (V): NR  
Input Current (Ain): 0.8716  
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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	90	91	89	87	85
2	100	92	85	79	97	90	84	78	86	81	77	83	79	75	80	76	73	71
3	91	80	72	66	88	79	72	66	76	70	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	60	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	46	44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34
8	61	48	39	33	59	47	39	33	46	38	33	44	38	33	43	37	33	31
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	6458
5°	6094
10°	5715
15°	5530
20°	5430
25°	5350
30°	5300
35°	5260
40°	5227
45°	5187
50°	5124
55°	5003
60°	4788
65°	4454
70°	3925
75°	3155
80°	2178
85°	1112



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.6	3.7
10°-20°	327.2	9.9
20°-30°	484.8	14.6
30°-40°	584.6	17.7
40°-50°	612.9	18.5
50°-60°	554.7	16.8
60°-70°	402.1	12.1
70°-80°	190.3	5.7
80°-90°	31.5	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	934.6	28.2
0°-40°	1519.3	45.9
0°-60°	2686.8	81.2
0°-90°	3310.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3310.7	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	1400	
5°	1316	123
15°	1158	327
25°	1051	485
35°	934	585
45°	795	613
55°	622	555
65°	408	402
75°	177	190
85°	21	32
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

0°	
0°	1400
2.5°	1376
5°	1316
7.5°	1261
10°	1220
12.5°	1187
15°	1158
17.5°	1132
20°	1106
22.5°	1078
25°	1051
27.5°	1023
30°	995
32.5°	965
35°	934
37.5°	902
40°	868
42.5°	832
45°	795
47.5°	756
50°	714
52.5°	670
55°	622
57.5°	572
60°	519
62.5°	464
65°	408
67.5°	349
70°	291
72.5°	233
75°	177
77.5°	126
80°	82
82.5°	46
85°	21
87.5°	8
90°	0

(END OF REPORT)