

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: P20739

Luminaire Tested: **FUSLP-X12-4-2500-7-50-UNV-80/84-ED**

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: P20739  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FUSLP-X12-4-2500-7-50-UNV-80/84-ED  
Description: FAIL-SAFE LED CONFINEMENT-CORRECTIONAL FIXTURE WITH 0.125 CLEAR PRISMATIC POLYCARBONATE LENS, 0.125 PRISMATIC ACRYLIC 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: (2)SMT LED BARS WITH 48 LEDS PER BAR 5000K  
(2)LIGHT BARS 34 WATTS  
Ballast/Driver: (2)MAGTECH ELECTRONIC LED DRIVER  
(2)LP1020

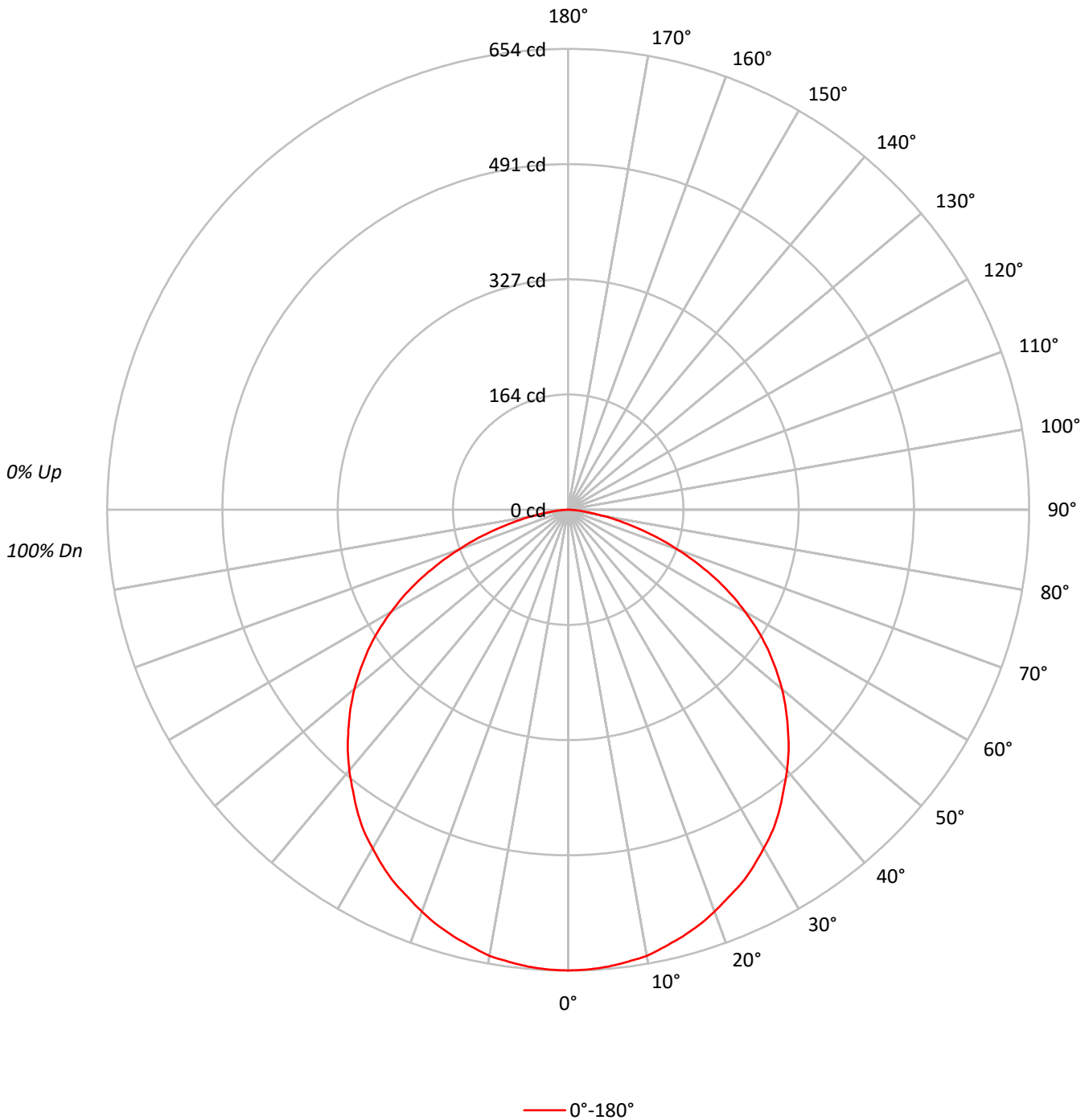
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1839.5 lumens  
Efficiency: N/A  
Efficacy: 53.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38  
Luminous Opening: Rectangular (W 0.46' x L: 3.92' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 34.5  
Input Voltage (V): NR  
Input Current (Ain): 0.29048  
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	100	97	106	102	99	95	98	95	92	94	92	89	91	89	87	85
2	99	91	85	79	97	89	83	78	86	81	76	83	78	74	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	67	63	70	66	62	60
4	83	71	62	56	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	48	60	53	47	58	52	47	56	51	46	44
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	37	31	26	24

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

	0°
0°	3921
5°	3918
10°	3915
15°	3892
20°	3873
25°	3864
30°	3843
35°	3821
40°	3781
45°	3740
50°	3694
55°	3617
60°	3478
65°	3263
70°	2893
75°	2386
80°	1727
85°	963



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.9	3.4
10°-20°	177.0	9.6
20°-30°	268.9	14.6
30°-40°	326.2	17.7
40°-50°	340.3	18.5
50°-60°	308.4	16.8
60°-70°	226.4	12.3
70°-80°	110.5	6.0
80°-90°	19.8	1.1
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
0°-30°	507.8	27.6
0°-40°	834.0	45.3
0°-60°	1482.7	80.6
0°-90°	1839.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1839.5	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	654	
5°	651	62
15°	627	177
25°	584	269
35°	522	326
45°	441	340
55°	346	308
65°	230	226
75°	103	110
85°	14	20
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	654
2.5°	653
5°	651
7.5°	647
10°	643
12.5°	635
15°	627
17.5°	618
20°	607
22.5°	595
25°	584
27.5°	570
30°	555
32.5°	540
35°	522
37.5°	502
40°	483
42.5°	463
45°	441
47.5°	419
50°	396
52.5°	371
55°	346
57.5°	319
60°	290
62.5°	261
65°	230
67.5°	197
70°	165
72.5°	134
75°	103
77.5°	75
80°	50
82.5°	29
85°	14
87.5°	5
90°	0

(END OF REPORT)