

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: P20742

Luminaire Tested: **FMSLP-X12-4-2500-7-50-UNV-82/88-ED**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P20742
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMSLP-X12-4-2500-7-50-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: (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

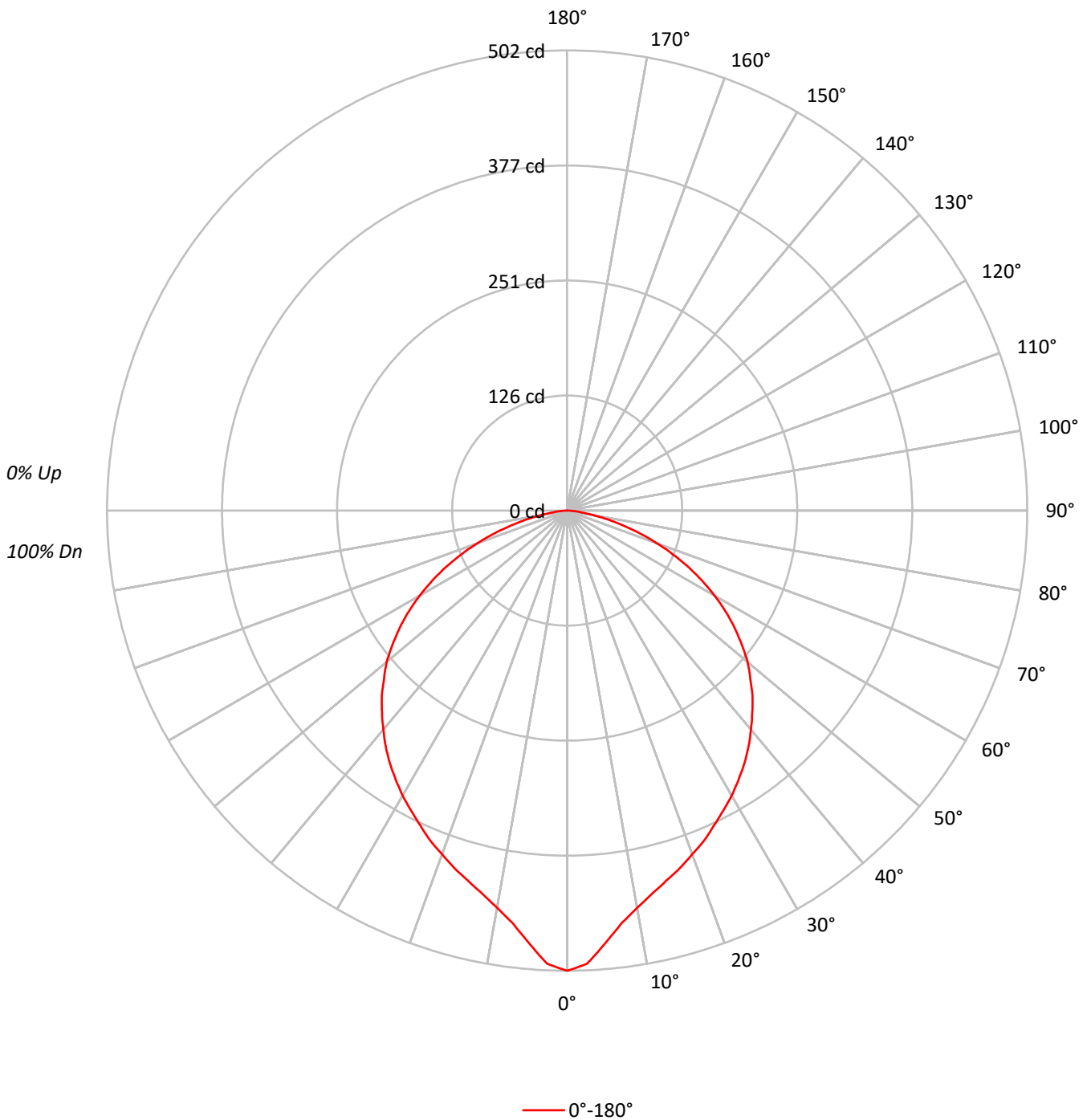
Lumens per Lamp: N/A
Luminaire Lumens: 1191.4 lumens
Efficiency: N/A
Efficacy: 34.6 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.26
Luminous Opening: Rectangular (W 0.58' x L: 3.73' x H: 0')
CIE Type: Direct

Input Watts (W): 34.4
Input Voltage (V): NR
Input Current (Ain): 0.28974
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	81	73	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	61	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	47	44
6	71	57	49	42	69	57	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	36	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°	2484
5°	2354
10°	2211
15°	2141
20°	2101
25°	2069
30°	2051
35°	2036
40°	2015
45°	2001
50°	1978
55°	1924
60°	1841
65°	1709
70°	1505
75°	1224
80°	855
85°	454



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.2	3.7
10°-20°	118.1	9.9
20°-30°	175.0	14.7
30°-40°	210.7	17.7
40°-50°	220.2	18.5
50°-60°	198.9	16.7
60°-70°	143.9	12.1
70°-80°	68.7	5.8
80°-90°	11.7	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
0°-30°	337.2	28.3
0°-40°	548.0	46.0
0°-60°	967.1	81.2
0°-90°	1191.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1191.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	502	
5°	474	44
15°	418	118
25°	379	175
35°	337	211
45°	286	220
55°	223	199
65°	146	144
75°	64	69
85°	8	12
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	502
2.5°	495
5°	474
7.5°	454
10°	440
12.5°	428
15°	418
17.5°	409
20°	399
22.5°	390
25°	379
27.5°	369
30°	359
32.5°	348
35°	337
37.5°	325
40°	312
42.5°	299
45°	286
47.5°	271
50°	257
52.5°	240
55°	223
57.5°	205
60°	186
62.5°	166
65°	146
67.5°	125
70°	104
72.5°	84
75°	64
77.5°	46
80°	30
82.5°	17
85°	8
87.5°	3
90°	0

(END OF REPORT)