

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: P20741

Luminaire Tested: **FMSLP-X12-4-5000-7-50-UNV-82/88-ED**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P20741
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FMSLP-X12-4-5000-7-50-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: (4)SMT LED BARS WITH 48 LEDS PER BAR 5000K
(4)LIGHT BARS 68 WATTS
Ballast/Driver: (4)MAGTECH ELECTRONIC LED DRIVER
(4)LP1020

Summary

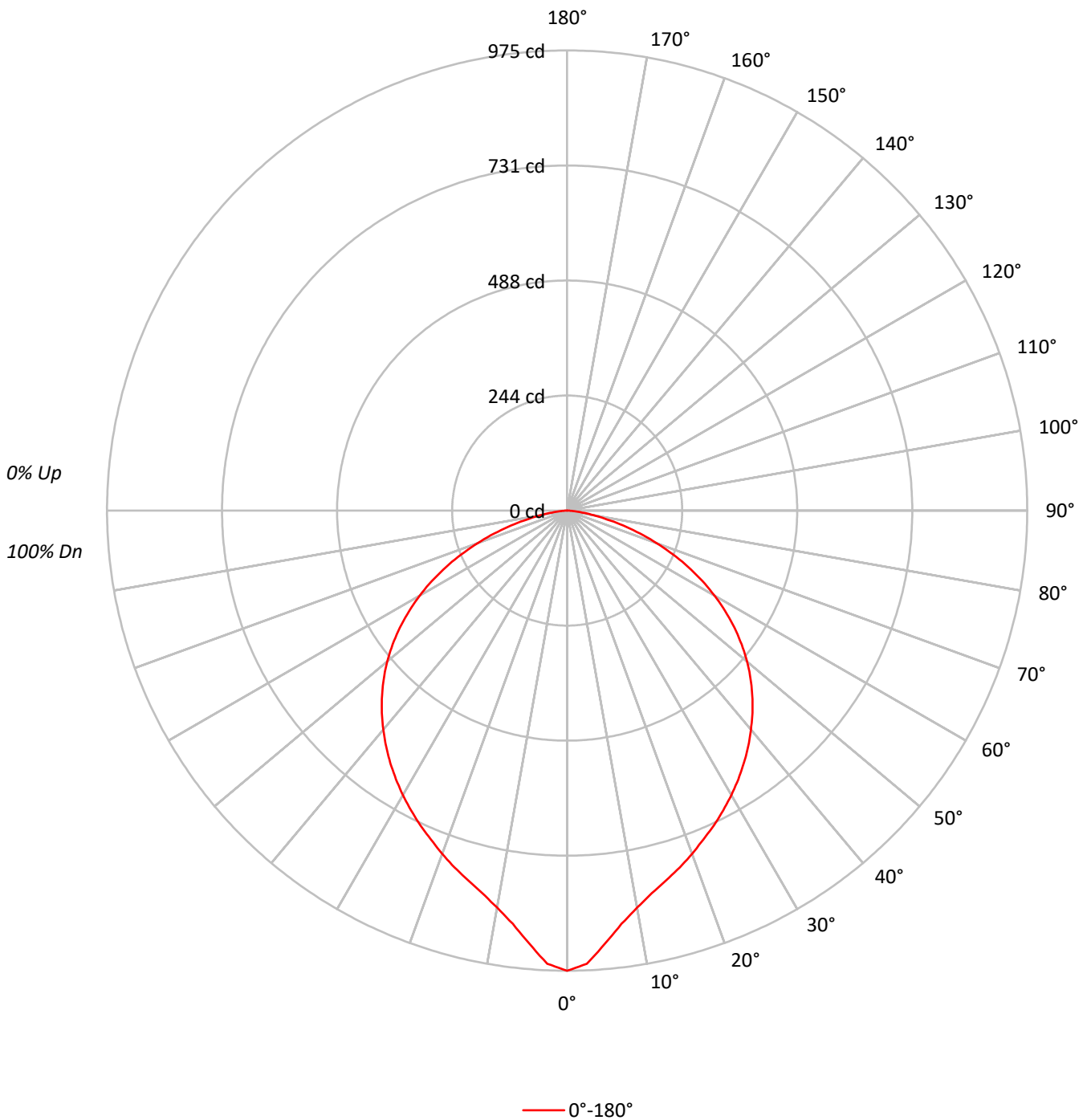
Lumens per Lamp: N/A
Luminaire Lumens: 2309.5 lumens
Efficiency: N/A
Efficacy: 33.3 lumens/watt
Spacing Criteria (0/90/45): 1.07 / 1.07 / 1.26
Luminous Opening: Rectangular (W 0.58' x L: 3.73' x H: 0')
CIE Type: Direct

Input Watts (W): 69.3
Input Voltage (V): NR
Input Current (A_{in}): 0.584
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	103	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	54	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°	4824
5°	4575
10°	4291
15°	4155
20°	4076
25°	4018
30°	3977
35°	3944
40°	3914
45°	3884
50°	3834
55°	3735
60°	3573
65°	3313
70°	2922
75°	2352
80°	1624
85°	795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.8	3.7
10°-20°	229.1	9.9
20°-30°	339.3	14.7
30°-40°	408.6	17.7
40°-50°	427.7	18.5
50°-60°	385.8	16.7
60°-70°	279.5	12.1
70°-80°	132.1	5.7
80°-90°	21.6	0.9
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°	654.1	28.3
0°-40°	1062.8	46.0
0°-60°	1876.3	81.2
0°-90°	2309.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2309.5	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	975	
5°	921	86
15°	811	229
25°	736	339
35°	653	409
45°	555	428
55°	433	386
65°	283	280
75°	123	132
85°	14	22
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	975
2.5°	961
5°	921
7.5°	883
10°	854
12.5°	830
15°	811
17.5°	793
20°	774
22.5°	754
25°	736
27.5°	716
30°	696
32.5°	675
35°	653
37.5°	630
40°	606
42.5°	581
45°	555
47.5°	527
50°	498
52.5°	466
55°	433
57.5°	397
60°	361
62.5°	323
65°	283
67.5°	243
70°	202
72.5°	162
75°	123
77.5°	87
80°	57
82.5°	32
85°	14
87.5°	5
90°	0

(END OF REPORT)