

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: P81281

Luminaire Tested: **FUSLP-X12-2-3750-7-50-UNV-80/84-ED**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P81281
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20737)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSLP-X12-2-3750-7-50-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: (3)SMT LED BARS WITH 48 LEDS PER BAR 5000K
(3)LIGHT BARS 52 WATTS
Ballast/Driver: (3)MAGTECH ELECTRONIC LED DRIVER
(3)LP1020

Summary

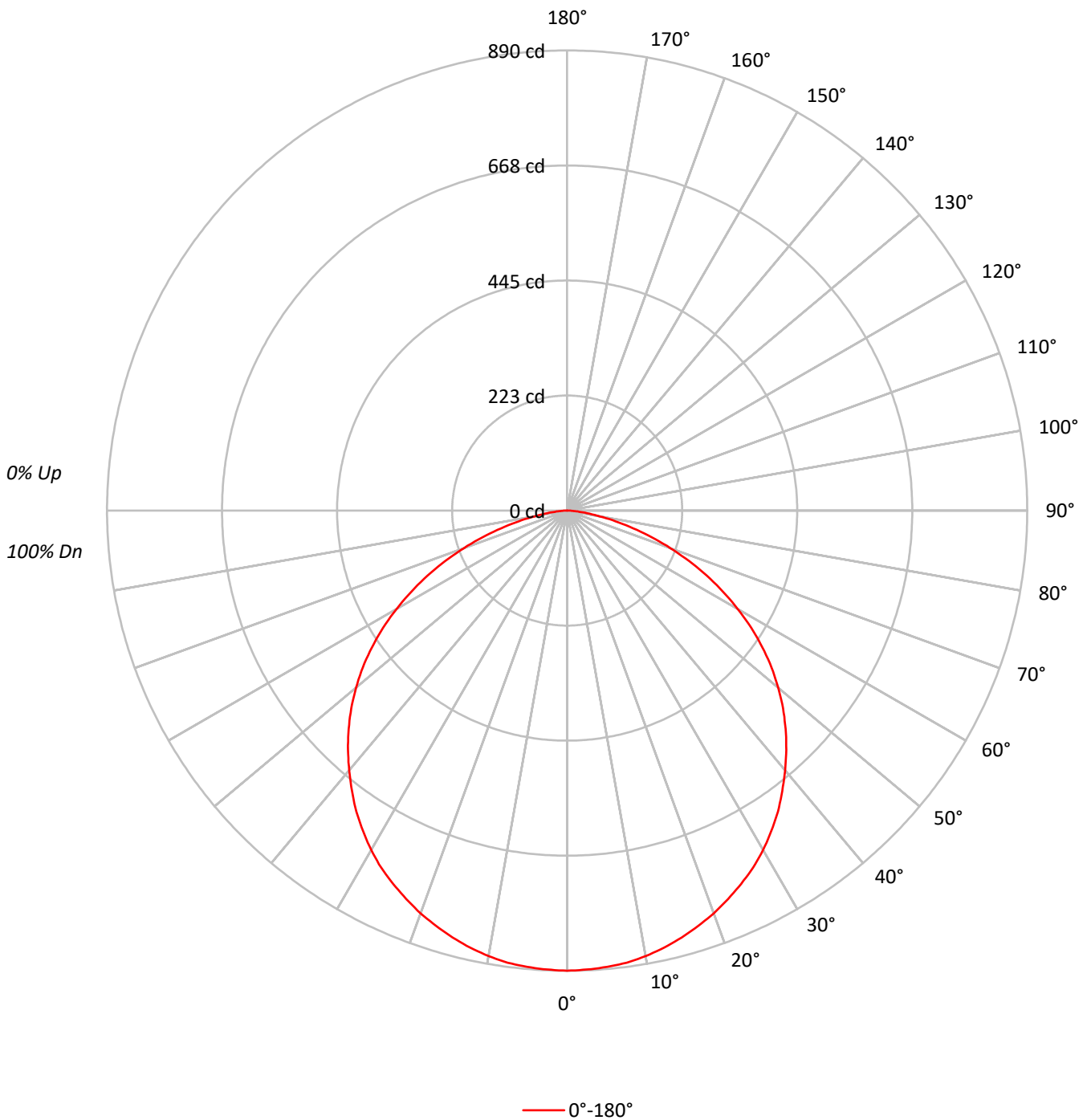
Lumens per Lamp: N/A
Luminaire Lumens: 2471.9 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.46' x H: 0.1')
CIE Type: Direct

Input Watts (W): 51.75
Input Voltage (V): NR
Input Current (Ain): 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	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	89		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	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	67	60	55		65	59	54		63	58	53	51
5	76	64	55	48	74	63	54	48	60	53	47		59	52	47		57	51	46	44
6	71	57	48	42	69	56	48	42	55	47	42		53	46	41		51	45	41	39
7	65	52	43	37	64	51	43	37	50	42	37		48	41	36		47	41	36	34
8	61	47	39	33	59	47	39	33	45	38	33		44	37	33		43	37	32	31
9	57	44	35	30	55	43	35	30	42	35	30		41	34	29		40	34	29	27
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°	10905
5°	10694
10°	10483
15°	10247
20°	10014
25°	9774
30°	9525
35°	9226
40°	8869
45°	8499
50°	8064
55°	7508
60°	6785
65°	5886
70°	4771
75°	3444
80°	2034
85°	805



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.2	3.4
10°-20°	241.4	9.8
20°-30°	367.3	14.9
30°-40°	444.2	18.0
40°-50°	460.7	18.6
50°-60°	411.1	16.6
60°-70°	294.3	11.9
70°-80°	141.8	5.7
80°-90°	27.0	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°	692.9	28.0
0°-40°	1137.1	46.0
0°-60°	2008.9	81.3
0°-90°	2471.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2471.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	890	
5°	886	84
15°	855	241
25°	796	367
35°	711	444
45°	598	461
55°	461	411
65°	298	294
75°	132	142
85°	20	27
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	890.0
2.5°	888.5
5°	886.0
7.5°	882.0
10°	875.0
12.5°	866.0
15°	855.0
17.5°	842.5
20°	829.0
22.5°	813.0
25°	796.5
27.5°	779.0
30°	758.0
32.5°	735.0
35°	711.0
37.5°	683.5
40°	656.0
42.5°	627.5
45°	597.5
47.5°	566.5
50°	533.0
52.5°	498.5
55°	461.0
57.5°	422.0
60°	381.5
62.5°	340.0
65°	298.0
67.5°	255.0
70°	213.0
72.5°	171.5
75°	132.0
77.5°	96.0
80°	64.5
82.5°	38.5
85°	20.0
87.5°	8.5
90°	0.0

(END OF REPORT)