

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: P20737

Luminaire Tested: **FUSLP-X12-4-7500-7-50-UNV-80/84ED**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P20737
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSLP-X12-4-7500-7-50-UNV-80/84ED
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: (6)SMT LED BARS WITH 48 LEDS PER BAR 5000K
(6)LIGHT BARS 102 WATTS
Ballast/Driver: (6)MAGTECH ELECTRONIC LED DRIVER
(6)LP1020

Summary

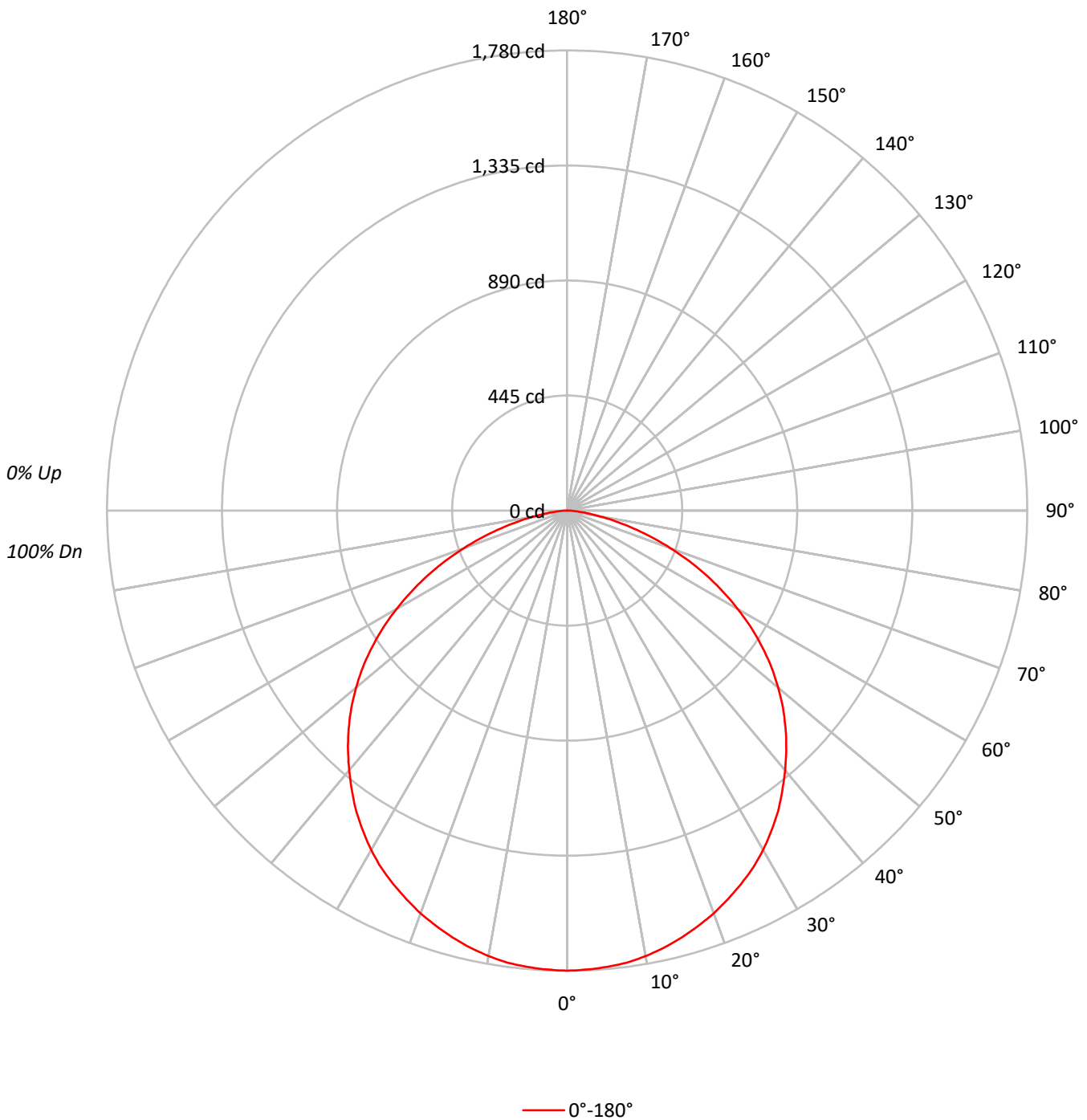
Lumens per Lamp: N/A
Luminaire Lumens: 4943.9 lumens
Efficiency: N/A
Efficacy: 47.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.38
Luminous Opening: Rectangular (W 0.46' x L: 3.92' x H: 0')
CIE Type: Direct

Input Watts (W): 103.5
Input Voltage (V): NR
Input Current (Ain): 0.8724
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°	10673
5°	10666
10°	10655
15°	10615
20°	10580
25°	10539
30°	10496
35°	10409
40°	10270
45°	10133
50°	9944
55°	9639
60°	9150
65°	8456
70°	7468
75°	6116
80°	4454
85°	2752



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.5	3.4
10°-20°	482.8	9.8
20°-30°	734.5	14.9
30°-40°	888.4	18.0
40°-50°	921.3	18.6
50°-60°	822.2	16.6
60°-70°	588.6	11.9
70°-80°	283.6	5.7
80°-90°	54.0	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°	1385.8	28.0
0°-40°	2274.2	46.0
0°-60°	4017.7	81.3
0°-90°	4943.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4943.9	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	1780	
5°	1772	168
15°	1710	483
25°	1593	735
35°	1422	888
45°	1195	921
55°	922	822
65°	596	589
75°	264	284
85°	40	54
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	1780
2.5°	1777
5°	1772
7.5°	1764
10°	1750
12.5°	1732
15°	1710
17.5°	1685
20°	1658
22.5°	1626
25°	1593
27.5°	1558
30°	1516
32.5°	1470
35°	1422
37.5°	1367
40°	1312
42.5°	1255
45°	1195
47.5°	1133
50°	1066
52.5°	997
55°	922
57.5°	844
60°	763
62.5°	680
65°	596
67.5°	510
70°	426
72.5°	343
75°	264
77.5°	192
80°	129
82.5°	77
85°	40
87.5°	17
90°	0

(END OF REPORT)