

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: P81280

Luminaire Tested: **FUSLP-X12-2-2500-7-50-UNV-8084-ED**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: P81280
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P20475)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSLP-X12-2-2500-7-50-UNV-8084-ED
Description: FAIL SAFE CONFINEMENT/CORRECTIONAL SURRFACE MOUNT LED
DOWNLIGHT FIXTURE WITH POLYCARBONATE SECURITY LENS
Light Source: (14)5000K SMT LEDS
(2) 2FT LED BARS
Ballast/Driver: MAGTEK ELECTRONIC DRIVER
LP1020

Summary

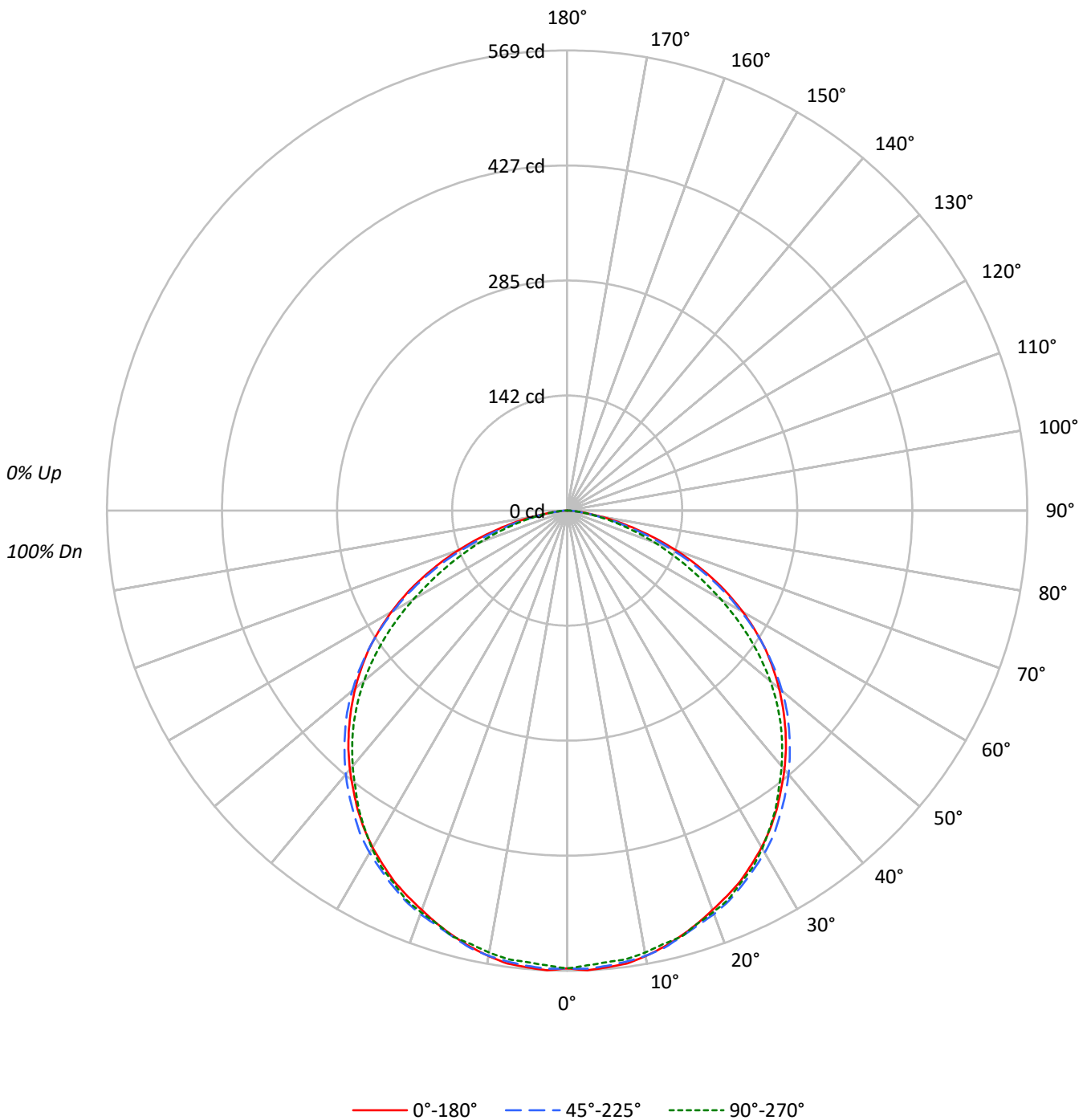
Lumens per Lamp: N/A
Luminaire Lumens: 1563.2 lumens
Efficiency: N/A
Efficacy: 45.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.92' x L: 0.46' x H: 0.1')
CIE Type: Direct

Input Watts (W): 34.55
Input Voltage (V): NR
Input Current (A_{in}): 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	103	99	96	98	95	93	94	92	90	91	89	87	85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71
3	91	81	73	66	89	79	72	66	76	70	65	73	68	64	71	66	62	60
4	83	72	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	52
5	77	64	55	49	75	63	55	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	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°	45°	90°
0°	6935	6935	6935
5°	6843	6835	6863
10°	6703	6728	6842
15°	6526	6583	6824
20°	6348	6473	6763
25°	6209	6349	6705
30°	6044	6225	6627
35°	5859	6055	6487
40°	5651	5872	6321
45°	5427	5652	6151
50°	5174	5387	5886
55°	4878	5034	5487
60°	4464	4566	4933
65°	3911	3958	4276
70°	3192	3136	3588
75°	2296	2169	2754
80°	1309	1202	1851
85°	423	463	1013



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.6	3.4
10°-20°	153.5	9.8
20°-30°	234.2	15.0
30°-40°	283.6	18.1
40°-50°	294.3	18.8
50°-60°	261.2	16.7
60°-70°	183.2	11.7
70°-80°	84.4	5.4
80°-90°	15.2	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°	441.2	28.2
0°-40°	724.8	46.4
0°-60°	1280.3	81.9
0°-90°	1563.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1563.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	566	566	566	566	566	
5°	567	560	565	564	560	54
15°	544	539	546	545	546	154
25°	506	504	512	510	508	233
35°	452	451	459	453	450	282
45°	382	382	388	379	374	294
55°	300	298	300	288	276	267
65°	198	194	192	174	164	196
75°	88	84	78	72	70	94
85°	10	10	10	12	12	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	566.0	566.0	566.0	566.0	566.0
2.5°	569.0	562.5	567.0	565.0	563.0
5°	567.0	560.5	565.0	563.5	560.5
7.5°	565.0	558.5	562.5	561.5	559.5
10°	559.5	553.5	559.0	557.5	555.0
12.5°	552.5	546.5	554.0	549.5	549.0
15°	544.5	539.0	545.5	545.0	545.5
17.5°	535.5	531.5	537.5	538.0	535.5
20°	525.5	524.0	531.0	528.0	528.5
22.5°	516.0	514.5	522.5	520.5	520.5
25°	506.0	503.5	511.5	510.0	508.0
27.5°	493.5	492.5	500.0	497.0	497.0
30°	481.0	479.0	488.5	486.0	482.5
32.5°	467.0	465.0	475.5	470.5	466.0
35°	451.5	451.0	459.0	453.0	449.5
37.5°	434.5	435.0	443.0	436.5	430.5
40°	418.0	418.0	426.0	417.0	412.5
42.5°	400.5	401.0	407.5	399.0	393.5
45°	381.5	382.5	388.5	379.0	373.5
47.5°	362.0	362.5	369.0	358.5	351.5
50°	342.0	342.0	347.0	336.5	328.0
52.5°	321.0	320.5	324.0	313.0	302.5
55°	299.5	297.5	300.0	287.5	276.0
57.5°	275.5	273.0	274.5	260.5	248.0
60°	251.0	248.0	248.0	232.5	219.5
62.5°	225.5	221.5	221.0	203.0	191.0
65°	198.0	194.0	192.5	174.0	164.0
67.5°	170.5	165.5	163.0	145.5	138.5
70°	142.5	137.5	133.5	119.0	114.5
72.5°	115.0	109.5	105.0	95.0	91.0
75°	88.0	83.5	78.5	72.5	69.5
77.5°	63.5	59.5	55.0	52.0	50.5
80°	41.5	39.0	35.5	35.0	34.0
82.5°	23.0	22.5	20.5	21.0	21.0
85°	10.5	10.5	10.5	11.5	11.5
87.5°	3.0	4.0	5.5	6.0	6.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)