

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: P555832

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-80-88-EDD-90**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P555832
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-3LO-50-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

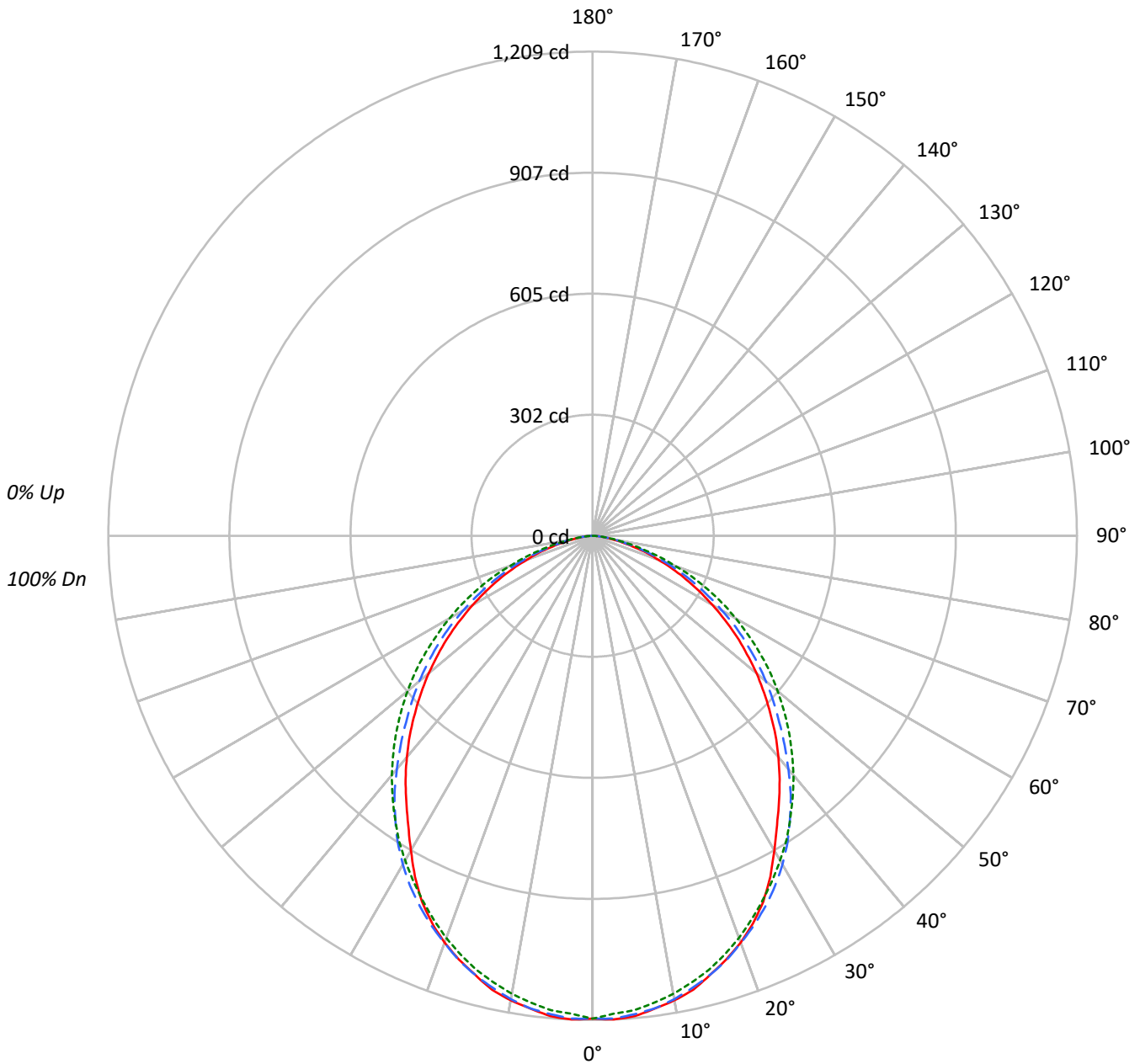
Lumens per Lamp: N/A
Luminaire Lumens: 2788.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6489	6489	6489
5°	6506	6479	6424
10°	6437	6420	6346
15°	6323	6323	6251
20°	6190	6198	6118
25°	5985	6060	5963
30°	5637	5890	5817
35°	5326	5646	5654
40°	5067	5340	5480
45°	4778	5017	5275
50°	4472	4728	5050
55°	4125	4399	4777
60°	3715	4014	4442
65°	3279	3568	4041
70°	2733	3040	3434
75°	2148	2427	2687
80°	1537	1708	1894
85°	1000	1000	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	4.1
10°-20°	318.9	11.4
20°-30°	466.0	16.7
30°-40°	529.0	19.0
40°-50°	510.7	18.3
50°-60°	421.3	15.1
60°-70°	280.5	10.1
70°-80°	125.5	4.5
80°-90°	22.5	0.8
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°	898.5	32.2
0°-40°	1427.5	51.2
0°-60°	2359.5	84.6
0°-90°	2788.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2788.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1204	1204	1199	1193	1189	114
15°	1135	1138	1135	1130	1122	320
25°	1008	1016	1020	1013	1004	462
35°	811	822	859	864	861	508
45°	628	638	659	689	693	484
55°	440	447	469	495	509	392
65°	258	264	280	300	317	255
75°	103	109	117	122	129	113
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1205.7	1205.7	1205.7	1205.7	1205.7
2.5°	1209.0	1209.4	1206.7	1199.3	1194.6
5°	1204.3	1203.9	1199.3	1192.8	1189.1
7.5°	1190.9	1191.8	1190.5	1181.2	1176.1
10°	1177.9	1178.4	1174.7	1167.3	1161.3
12.5°	1161.3	1160.8	1155.7	1152.0	1142.3
15°	1134.9	1137.6	1134.9	1129.8	1121.9
17.5°	1109.4	1109.4	1111.2	1102.4	1096.4
20°	1080.7	1082.1	1082.1	1075.1	1068.2
22.5°	1047.3	1051.5	1052.9	1045.5	1037.1
25°	1007.9	1015.8	1020.5	1013.0	1004.2
27.5°	960.2	972.3	986.2	980.6	970.9
30°	907.0	924.6	947.7	943.1	936.1
32.5°	856.5	874.1	906.0	904.2	900.5
35°	810.6	821.7	859.3	863.9	860.6
37.5°	767.1	777.3	812.5	823.1	820.3
40°	721.2	732.3	760.1	779.1	780.0
42.5°	675.8	686.5	709.2	736.5	736.5
45°	627.7	638.3	659.1	689.3	693.0
47.5°	580.4	591.5	611.9	642.0	648.0
50°	534.1	544.3	564.7	593.8	603.1
52.5°	485.9	497.0	516.9	543.8	557.2
55°	439.6	447.0	468.8	494.7	509.1
57.5°	391.4	398.4	422.9	445.1	460.0
60°	345.1	353.9	372.9	395.6	412.7
62.5°	300.6	309.9	326.1	346.0	365.5
65°	257.5	264.5	280.2	300.2	317.3
67.5°	215.9	221.9	237.6	251.5	269.6
70°	173.7	181.6	193.2	206.6	218.2
72.5°	139.9	143.1	152.9	162.6	174.6
75°	103.3	108.9	116.7	122.3	129.2
77.5°	74.1	77.4	82.0	86.6	93.1
80°	49.6	51.0	55.1	56.0	61.1
82.5°	30.1	31.0	32.0	32.4	34.3
85°	16.2	16.2	16.2	15.3	15.3
87.5°	9.3	9.3	7.9	6.5	4.6
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)