

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: P554836

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-82-86-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: P554836
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-LD4-2HI-50-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

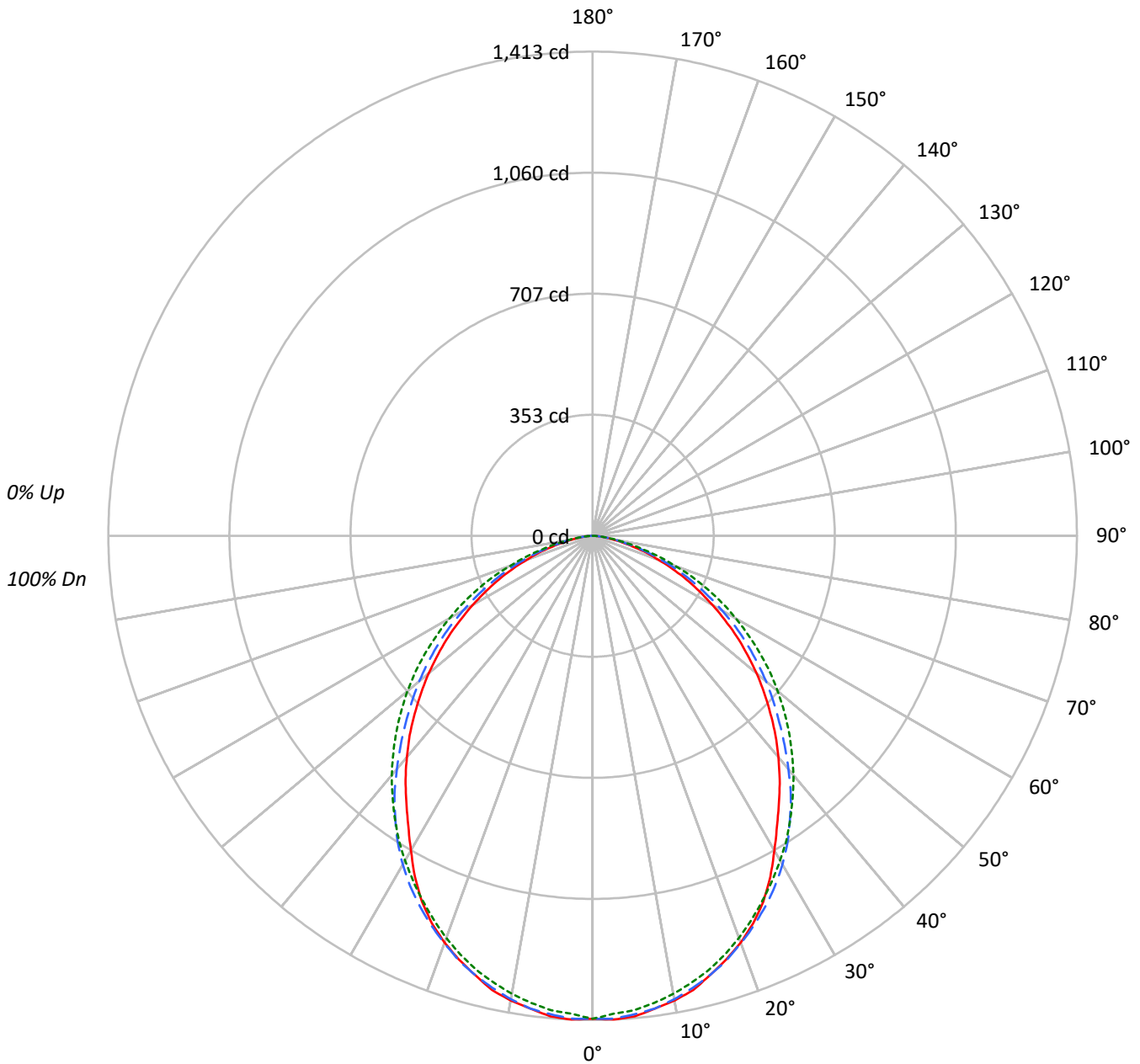
Lumens per Lamp: N/A
Luminaire Lumens: 3259.0 lumens
Efficiency: N/A
Efficacy: 75.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7585	7585	7585
5°	7606	7574	7509
10°	7525	7505	7419
15°	7392	7392	7307
20°	7235	7245	7151
25°	6997	7083	6971
30°	6589	6884	6801
35°	6226	6599	6610
40°	5923	6242	6406
45°	5584	5864	6165
50°	5227	5526	5903
55°	4822	5142	5584
60°	4342	4692	5193
65°	3834	4172	4723
70°	3194	3553	4013
75°	2510	2836	3142
80°	1795	1996	2216
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.7	4.1
10°-20°	372.8	11.4
20°-30°	544.8	16.7
30°-40°	618.4	19.0
40°-50°	597.0	18.3
50°-60°	492.5	15.1
60°-70°	327.9	10.1
70°-80°	146.7	4.5
80°-90°	26.3	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°	1050.3	32.2
0°-40°	1668.7	51.2
0°-60°	2758.1	84.6
0°-90°	3259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3259.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1409	1409	1409	1409	1409	
5°	1408	1407	1402	1394	1390	133
15°	1327	1330	1327	1321	1311	374
25°	1178	1187	1193	1184	1174	540
35°	948	961	1004	1010	1006	594
45°	734	746	770	806	810	566
55°	514	522	548	578	595	459
65°	301	309	328	351	371	299
75°	121	127	136	143	151	132
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1409.4	1409.4	1409.4	1409.4	1409.4
2.5°	1413.2	1413.8	1410.5	1401.9	1396.4
5°	1407.8	1407.3	1401.9	1394.3	1389.9
7.5°	1392.1	1393.2	1391.6	1380.7	1374.8
10°	1376.9	1377.5	1373.2	1364.5	1357.5
12.5°	1357.5	1356.9	1351.0	1346.6	1335.3
15°	1326.6	1329.8	1326.6	1320.6	1311.4
17.5°	1296.8	1296.8	1299.0	1288.7	1281.6
20°	1263.2	1264.9	1264.9	1256.7	1248.6
22.5°	1224.3	1229.1	1230.7	1222.1	1212.3
25°	1178.2	1187.4	1192.8	1184.2	1173.9
27.5°	1122.5	1136.5	1152.8	1146.3	1134.9
30°	1060.2	1080.8	1107.8	1102.4	1094.3
32.5°	1001.2	1021.7	1059.1	1056.9	1052.6
35°	947.6	960.6	1004.4	1009.8	1006.0
37.5°	896.7	908.6	949.7	962.2	958.9
40°	843.1	856.1	888.5	910.7	911.8
42.5°	790.0	802.5	829.0	860.9	860.9
45°	733.7	746.1	770.5	805.7	810.0
47.5°	678.5	691.5	715.3	750.5	757.5
50°	624.3	636.2	660.0	694.2	705.0
52.5°	568.0	581.0	604.3	635.7	651.4
55°	513.9	522.5	548.0	578.3	595.1
57.5°	457.5	465.7	494.4	520.3	537.7
60°	403.4	413.7	435.9	462.4	482.4
62.5°	351.4	362.2	381.2	404.5	427.2
65°	301.1	309.2	327.6	350.9	370.9
67.5°	252.3	259.4	277.8	294.0	315.1
70°	203.0	212.3	225.8	241.5	255.0
72.5°	163.5	167.3	178.7	190.1	204.1
75°	120.7	127.2	136.4	142.9	151.1
77.5°	86.6	90.4	95.8	101.3	108.8
80°	57.9	59.6	64.4	65.5	71.5
82.5°	35.2	36.3	37.4	37.9	40.1
85°	19.0	19.0	19.0	17.9	17.9
87.5°	10.8	10.8	9.2	7.6	5.4
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)