

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: P554665

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-93-88-EDD**

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: P554665
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-30-UNV-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

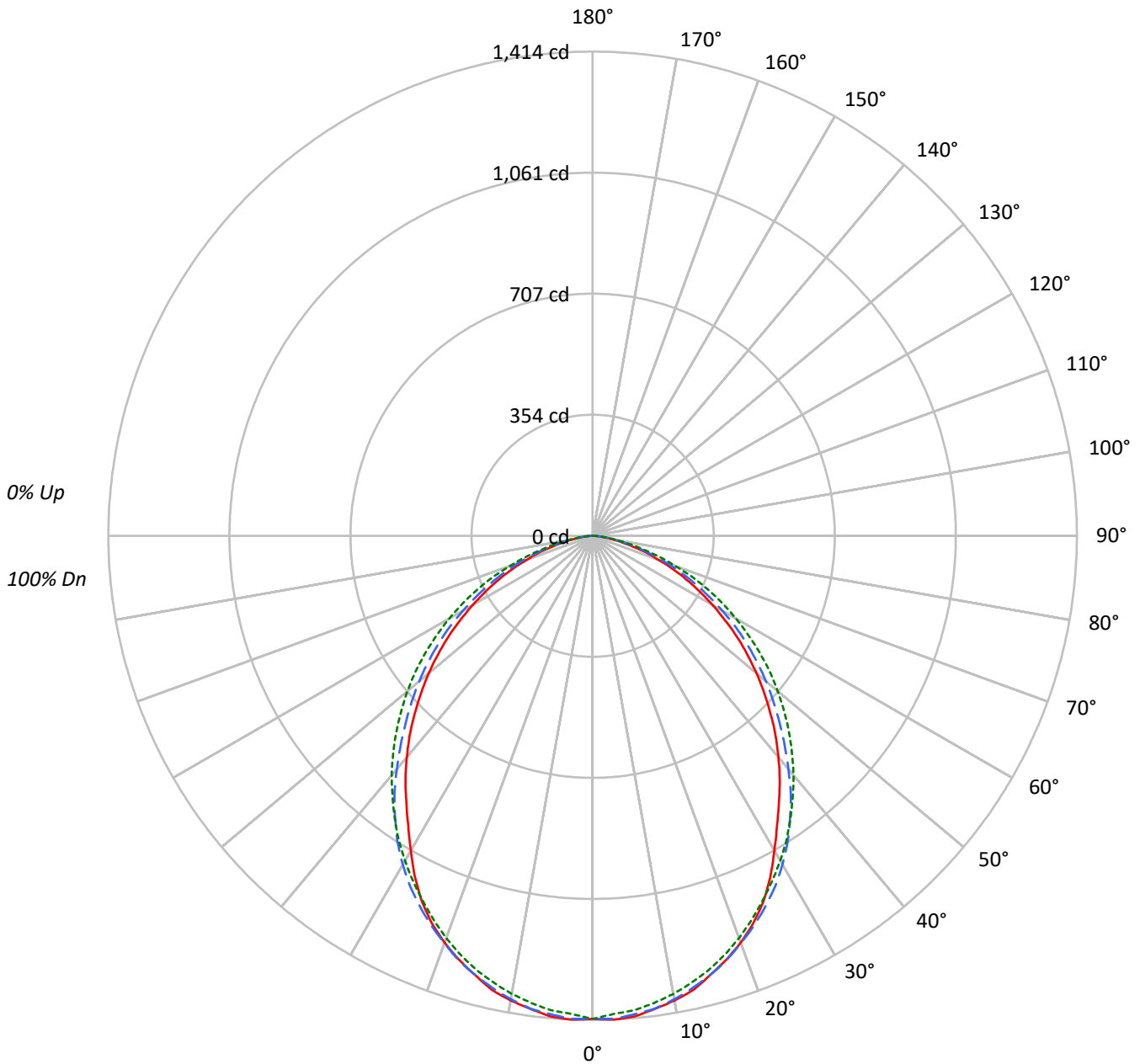
Lumens per Lamp: N/A
Luminaire Lumens: 3262.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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									
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°	7592	7592	7592
5°	7613	7580	7516
10°	7532	7511	7425
15°	7398	7398	7314
20°	7242	7251	7158
25°	7003	7090	6978
30°	6595	6891	6807
35°	6231	6605	6616
40°	5928	6249	6412
45°	5590	5870	6171
50°	5232	5532	5908
55°	4826	5147	5589
60°	4346	4696	5198
65°	3837	4176	4727
70°	3198	3556	4017
75°	2514	2840	3144
80°	1798	1999	2216
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.8	4.1
10°-20°	373.1	11.4
20°-30°	545.3	16.7
30°-40°	619.0	19.0
40°-50°	597.5	18.3
50°-60°	492.9	15.1
60°-70°	328.2	10.1
70°-80°	146.9	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°	1051.2	32.2
0°-40°	1670.2	51.2
0°-60°	2760.6	84.6
0°-90°	3262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1411	1411	1411	1411	1411	
5°	1409	1409	1403	1396	1391	133
15°	1328	1331	1328	1322	1313	374
25°	1179	1188	1194	1185	1175	540
35°	948	961	1005	1011	1007	594
45°	734	747	771	806	811	567
55°	514	523	548	579	596	459
65°	301	310	328	351	371	299
75°	121	127	137	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°	1410.7	1410.7	1410.7	1410.7	1410.7
2.5°	1414.5	1415.1	1411.8	1403.1	1397.7
5°	1409.1	1408.6	1403.1	1395.6	1391.2
7.5°	1393.4	1394.5	1392.8	1382.0	1376.0
10°	1378.2	1378.8	1374.4	1365.7	1358.7
12.5°	1358.7	1358.2	1352.2	1347.9	1336.5
15°	1327.8	1331.1	1327.8	1321.8	1312.6
17.5°	1298.0	1298.0	1300.2	1289.9	1282.8
20°	1264.4	1266.0	1266.0	1257.9	1249.8
22.5°	1225.4	1230.3	1231.9	1223.2	1213.5
25°	1179.3	1188.5	1193.9	1185.3	1175.0
27.5°	1123.5	1137.6	1153.8	1147.3	1136.0
30°	1061.2	1081.8	1108.9	1103.4	1095.3
32.5°	1002.1	1022.7	1060.1	1057.9	1053.6
35°	948.4	961.4	1005.3	1010.8	1007.0
37.5°	897.5	909.4	950.6	963.1	959.8
40°	843.8	856.8	889.4	911.6	912.7
42.5°	790.7	803.2	829.7	861.7	861.7
45°	734.4	746.8	771.2	806.4	810.8
47.5°	679.1	692.1	715.9	751.2	758.2
50°	624.9	636.8	660.7	694.8	705.6
52.5°	568.5	581.5	604.8	636.3	652.0
55°	514.3	523.0	548.5	578.8	595.6
57.5°	458.0	466.1	494.8	520.8	538.2
60°	403.8	414.1	436.3	462.8	482.9
62.5°	351.7	362.6	381.5	404.8	427.6
65°	301.3	309.5	327.9	351.2	371.2
67.5°	252.6	259.6	278.0	294.3	315.4
70°	203.2	212.4	226.0	241.7	255.3
72.5°	163.7	167.5	178.8	190.2	204.3
75°	120.9	127.4	136.6	143.1	151.2
77.5°	86.7	90.5	95.9	101.3	108.9
80°	58.0	59.6	64.5	65.6	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)