

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: P554841

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-82-88-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: P554841
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-82-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

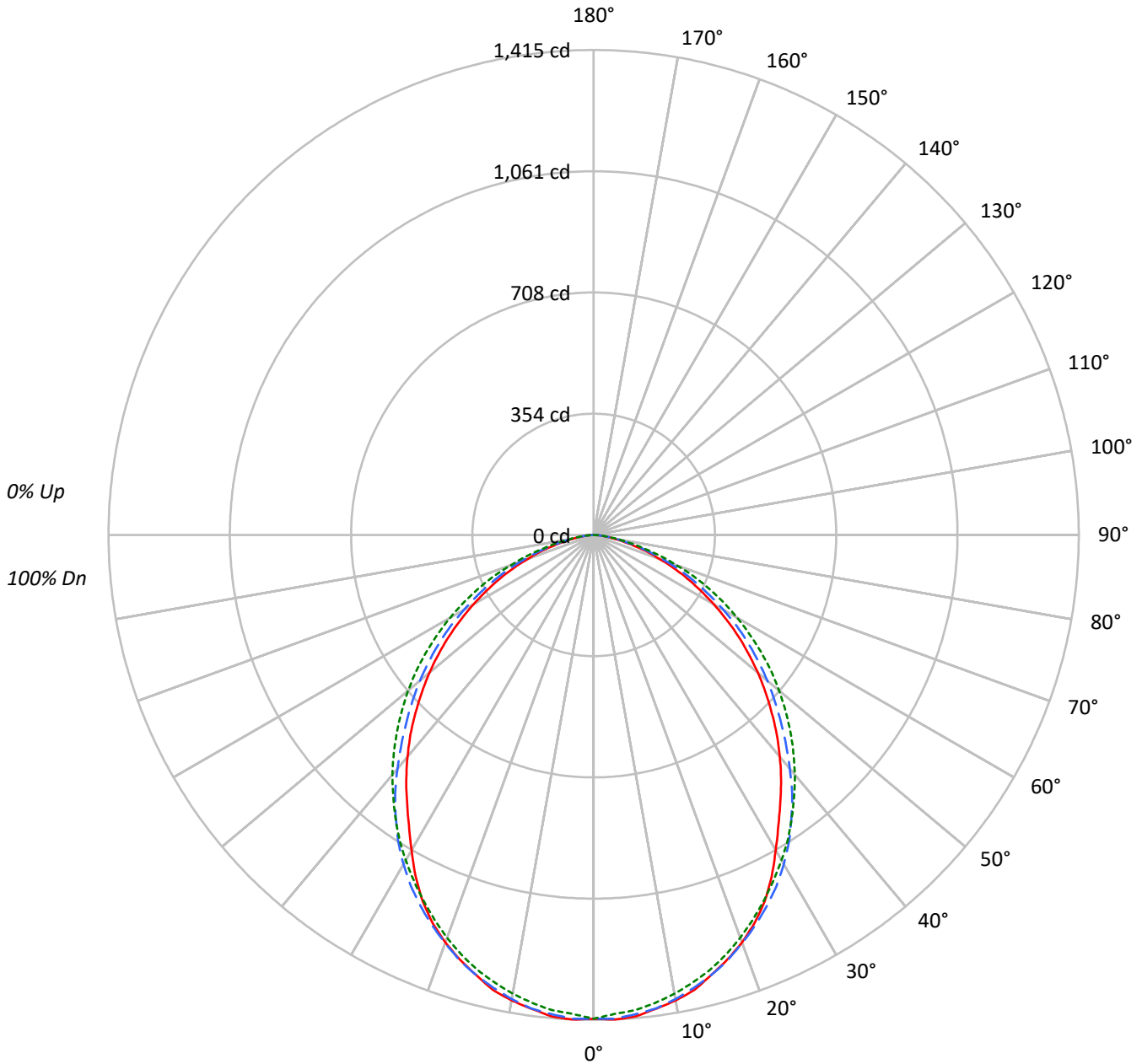
Lumens per Lamp: N/A
Luminaire Lumens: 3264.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7597	7597	7597
5°	7618	7585	7521
10°	7537	7516	7430
15°	7403	7403	7318
20°	7246	7255	7162
25°	7007	7095	6982
30°	6599	6895	6811
35°	6235	6610	6620
40°	5932	6252	6416
45°	5593	5874	6175
50°	5236	5535	5912
55°	4829	5149	5592
60°	4349	4698	5201
65°	3840	4178	4731
70°	3201	3558	4019
75°	2514	2843	3146
80°	1798	1999	2219
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.9	4.1
10°-20°	373.4	11.4
20°-30°	545.6	16.7
30°-40°	619.3	19.0
40°-50°	597.9	18.3
50°-60°	493.2	15.1
60°-70°	328.4	10.1
70°-80°	147.0	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°	1051.9	32.2
0°-40°	1671.2	51.2
0°-60°	2762.3	84.6
0°-90°	3264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3264.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1410	1409	1404	1396	1392	133
15°	1329	1332	1329	1323	1313	375
25°	1180	1189	1195	1186	1176	540
35°	949	962	1006	1011	1008	595
45°	735	747	772	807	811	567
55°	515	523	549	579	596	459
65°	302	310	328	351	372	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°	1411.6	1411.6	1411.6	1411.6	1411.6
2.5°	1415.4	1415.9	1412.7	1404.0	1398.6
5°	1410.0	1409.4	1404.0	1396.4	1392.1
7.5°	1394.2	1395.3	1393.7	1382.9	1376.9
10°	1379.1	1379.6	1375.3	1366.6	1359.5
12.5°	1359.5	1359.0	1353.0	1348.7	1337.3
15°	1328.6	1331.9	1328.6	1322.7	1313.4
17.5°	1298.8	1298.8	1301.0	1290.7	1283.6
20°	1265.2	1266.8	1266.8	1258.7	1250.5
22.5°	1226.1	1231.0	1232.6	1224.0	1214.2
25°	1180.0	1189.3	1194.7	1186.0	1175.7
27.5°	1124.2	1138.3	1154.5	1148.0	1136.7
30°	1061.8	1082.4	1109.5	1104.1	1096.0
32.5°	1002.7	1023.3	1060.7	1058.6	1054.2
35°	949.0	962.0	1006.0	1011.4	1007.6
37.5°	898.0	910.0	951.2	963.7	960.4
40°	844.4	857.4	889.9	912.1	913.2
42.5°	791.2	803.7	830.3	862.3	862.3
45°	734.8	747.3	771.7	806.9	811.3
47.5°	679.5	692.5	716.4	751.6	758.7
50°	625.3	637.2	661.1	695.2	706.1
52.5°	568.9	581.9	605.2	636.7	652.4
55°	514.6	523.3	548.8	579.2	596.0
57.5°	458.2	466.4	495.1	521.1	538.5
60°	404.0	414.3	436.5	463.1	483.2
62.5°	351.9	362.8	381.8	405.1	427.9
65°	301.5	309.7	328.1	351.4	371.5
67.5°	252.7	259.8	278.2	294.5	315.6
70°	203.4	212.6	226.1	241.9	255.4
72.5°	163.8	167.6	179.0	190.3	204.4
75°	120.9	127.4	136.7	143.2	151.3
77.5°	86.8	90.6	96.0	101.4	109.0
80°	58.0	59.7	64.5	65.6	71.6
82.5°	35.2	36.3	37.4	38.0	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)