

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: P555299

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-85-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: P555299
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-LD4-2STD-40-UNV-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

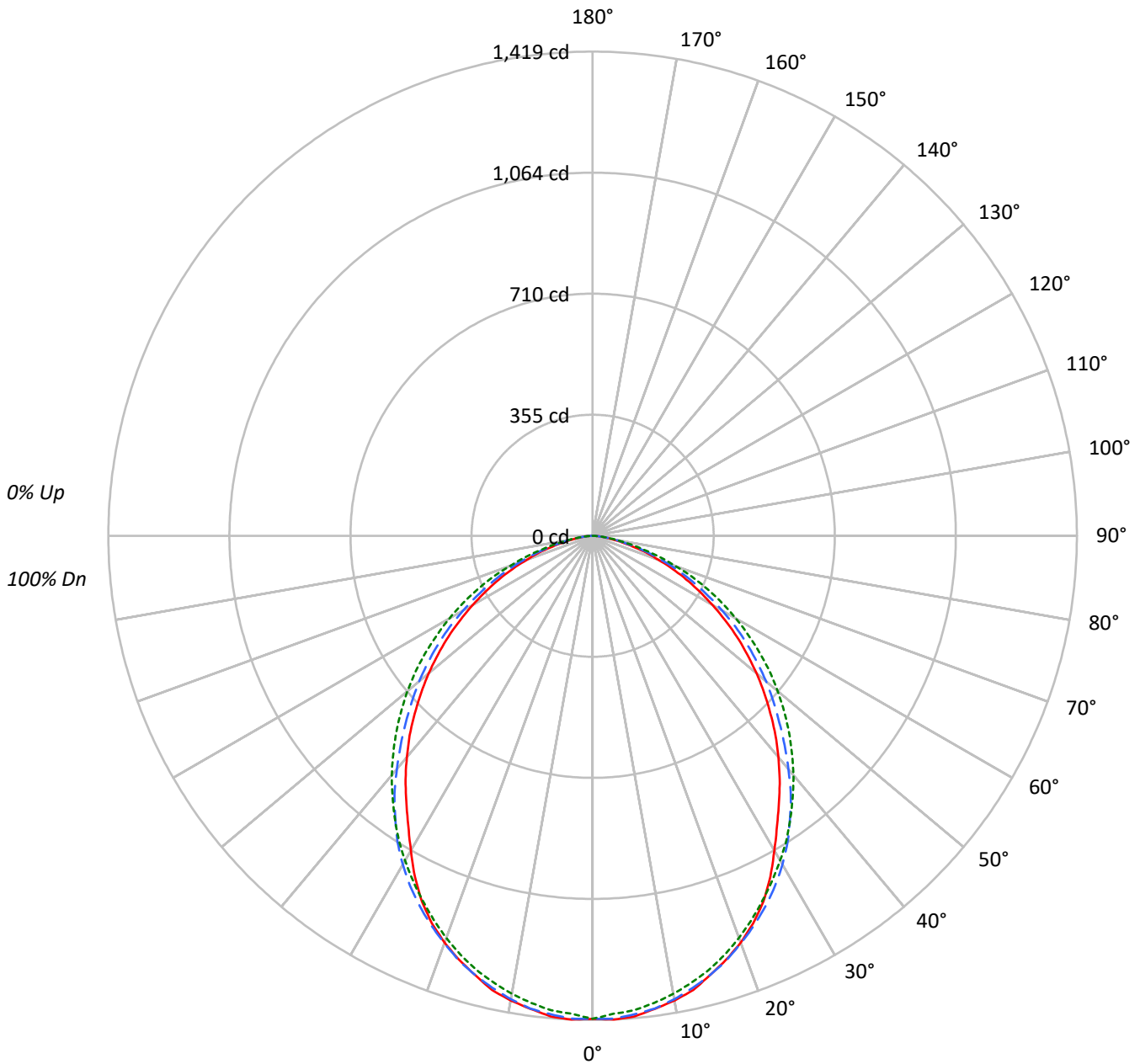
Lumens per Lamp: N/A
Luminaire Lumens: 3273.0 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7618	7618	7618
5°	7639	7606	7541
10°	7558	7537	7450
15°	7423	7423	7339
20°	7266	7275	7182
25°	7027	7114	7001
30°	6617	6914	6830
35°	6252	6627	6638
40°	5949	6270	6433
45°	5608	5890	6192
50°	5250	5550	5928
55°	4843	5164	5607
60°	4360	4712	5215
65°	3850	4190	4744
70°	3209	3569	4030
75°	2522	2849	3154
80°	1804	2005	2225
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.3	4.1
10°-20°	374.4	11.4
20°-30°	547.1	16.7
30°-40°	621.0	19.0
40°-50°	599.5	18.3
50°-60°	494.6	15.1
60°-70°	329.3	10.1
70°-80°	147.4	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°	1054.8	32.2
0°-40°	1675.8	51.2
0°-60°	2769.9	84.6
0°-90°	3273.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3273.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1416	1416	1416	1416	1416	
5°	1414	1413	1408	1400	1396	134
15°	1332	1336	1332	1326	1317	376
25°	1183	1192	1198	1189	1179	542
35°	952	965	1009	1014	1010	596
45°	737	749	774	809	814	569
55°	516	525	550	581	598	461
65°	302	310	329	352	372	300
75°	121	128	137	144	152	133
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°	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1419.3	1419.8	1416.6	1407.9	1402.4
5°	1413.9	1413.3	1407.9	1400.3	1395.9
7.5°	1398.1	1399.2	1397.5	1386.7	1380.7
10°	1382.9	1383.4	1379.1	1370.4	1363.3
12.5°	1363.3	1362.7	1356.8	1352.4	1341.0
15°	1332.3	1335.6	1332.3	1326.3	1317.1
17.5°	1302.4	1302.4	1304.6	1294.2	1287.2
20°	1268.7	1270.3	1270.3	1262.1	1254.0
22.5°	1229.5	1234.4	1236.0	1227.3	1217.5
25°	1183.3	1192.5	1198.0	1189.3	1178.9
27.5°	1127.3	1141.4	1157.7	1151.2	1139.8
30°	1064.7	1085.4	1112.6	1107.2	1099.0
32.5°	1005.5	1026.1	1063.7	1061.5	1057.1
35°	951.6	964.7	1008.7	1014.2	1010.4
37.5°	900.5	912.5	953.8	966.3	963.1
40°	846.7	859.7	892.4	914.7	915.7
42.5°	793.4	805.9	832.5	864.6	864.6
45°	736.8	749.3	773.8	809.2	813.5
47.5°	681.4	694.4	718.3	753.7	760.8
50°	627.0	639.0	662.9	697.1	708.0
52.5°	570.4	583.5	606.9	638.4	654.2
55°	516.1	524.8	550.3	580.8	597.6
57.5°	459.5	467.7	496.5	522.6	540.0
60°	405.1	415.5	437.8	464.4	484.5
62.5°	352.9	363.8	382.8	406.2	429.1
65°	302.3	310.5	329.0	352.4	372.5
67.5°	253.4	260.5	279.0	295.3	316.5
70°	203.9	213.2	226.8	242.5	256.1
72.5°	164.2	168.0	179.5	190.9	205.0
75°	121.3	127.8	137.0	143.6	151.7
77.5°	87.0	90.8	96.3	101.7	109.3
80°	58.2	59.8	64.7	65.8	71.8
82.5°	35.3	36.4	37.5	38.1	40.2
85°	19.0	19.0	19.0	17.9	17.9
87.5°	10.9	10.9	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)