

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: P555809

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-84-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: P555809
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-40-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

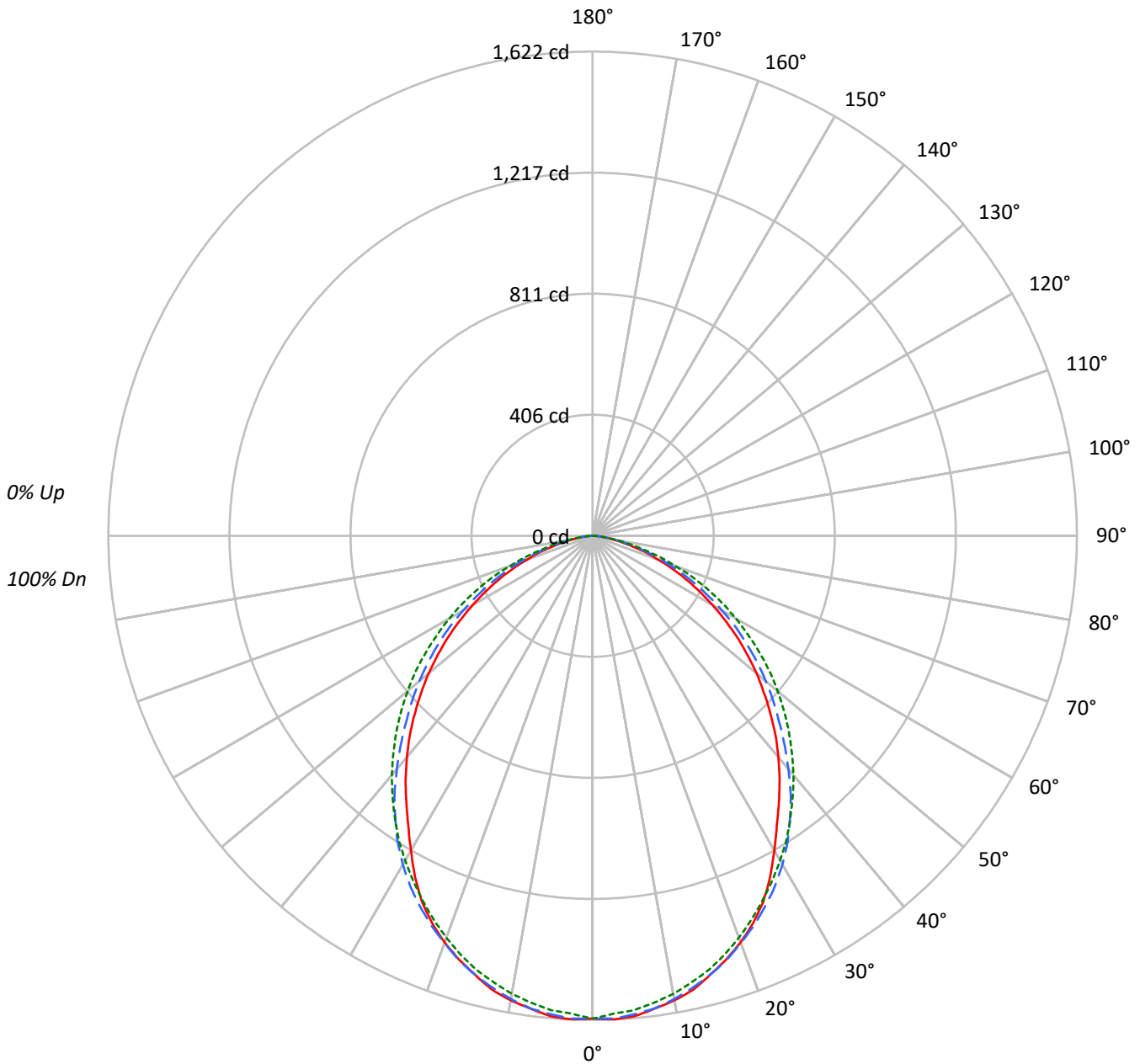
Lumens per Lamp: N/A
Luminaire Lumens: 3740.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8705	8705	8705
5°	8728	8692	8618
10°	8636	8612	8513
15°	8483	8483	8386
20°	8303	8313	8207
25°	8029	8129	8000
30°	7561	7901	7804
35°	7144	7573	7585
40°	6797	7164	7352
45°	6409	6730	7075
50°	5999	6342	6774
55°	5533	5900	6408
60°	4983	5384	5960
65°	4400	4787	5420
70°	3666	4077	4606
75°	2882	3256	3606
80°	2061	2290	2541
85°	1340	1340	1266



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.3	4.1
10°-20°	427.8	11.4
20°-30°	625.2	16.7
30°-40°	709.7	19.0
40°-50°	685.1	18.3
50°-60°	565.1	15.1
60°-70°	376.3	10.1
70°-80°	168.4	4.5
80°-90°	30.1	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°	1205.3	32.2
0°-40°	1914.9	51.2
0°-60°	3165.1	84.6
0°-90°	3740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3740.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1618	1618	1618	1618	1618	
5°	1616	1615	1609	1600	1595	153
15°	1522	1526	1522	1516	1505	429
25°	1352	1363	1369	1359	1347	619
35°	1087	1102	1153	1159	1154	681
45°	842	856	884	925	930	650
55°	590	600	629	664	683	526
65°	346	355	376	403	426	343
75°	139	146	157	164	173	152
85°	22	22	22	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1617.5	1617.5	1617.5	1617.5	1617.5
2.5°	1621.8	1622.4	1618.7	1608.8	1602.5
5°	1615.6	1615.0	1608.8	1600.1	1595.1
7.5°	1597.6	1598.8	1596.9	1584.5	1577.7
10°	1580.2	1580.8	1575.8	1565.9	1557.8
12.5°	1557.8	1557.2	1550.3	1545.4	1532.3
15°	1522.4	1526.1	1522.4	1515.5	1505.0
17.5°	1488.2	1488.2	1490.7	1478.9	1470.8
20°	1449.7	1451.5	1451.5	1442.2	1432.9
22.5°	1404.9	1410.5	1412.4	1402.5	1391.3
25°	1352.1	1362.7	1368.9	1359.0	1347.2
27.5°	1288.1	1304.3	1322.9	1315.5	1302.4
30°	1216.7	1240.3	1271.3	1265.1	1255.8
32.5°	1148.9	1172.5	1215.4	1212.9	1208.0
35°	1087.4	1102.3	1152.7	1158.9	1154.5
37.5°	1029.0	1042.7	1089.9	1104.2	1100.5
40°	967.5	982.4	1019.7	1045.2	1046.4
42.5°	906.6	920.9	951.3	988.0	988.0
45°	842.0	856.3	884.2	924.6	929.6
47.5°	778.6	793.5	820.8	861.2	869.3
50°	716.5	730.1	757.5	796.6	809.0
52.5°	651.8	666.7	693.5	729.5	747.5
55°	589.7	599.6	628.8	663.6	682.9
57.5°	525.1	534.4	567.3	597.1	617.0
60°	462.9	474.7	500.2	530.7	553.7
62.5°	403.3	415.7	437.5	464.2	490.3
65°	345.5	354.8	375.9	402.7	425.6
67.5°	289.6	297.6	318.8	337.4	361.6
70°	233.0	243.6	259.1	277.1	292.7
72.5°	187.7	192.0	205.1	218.1	234.3
75°	138.6	146.0	156.6	164.0	173.4
77.5°	99.4	103.8	110.0	116.2	124.9
80°	66.5	68.4	73.9	75.2	82.0
82.5°	40.4	41.6	42.9	43.5	46.0
85°	21.7	21.7	21.7	20.5	20.5
87.5°	12.4	12.4	10.6	8.7	6.2
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)