

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: P556008

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-88-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: P556008
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-LD4-3STD-35-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

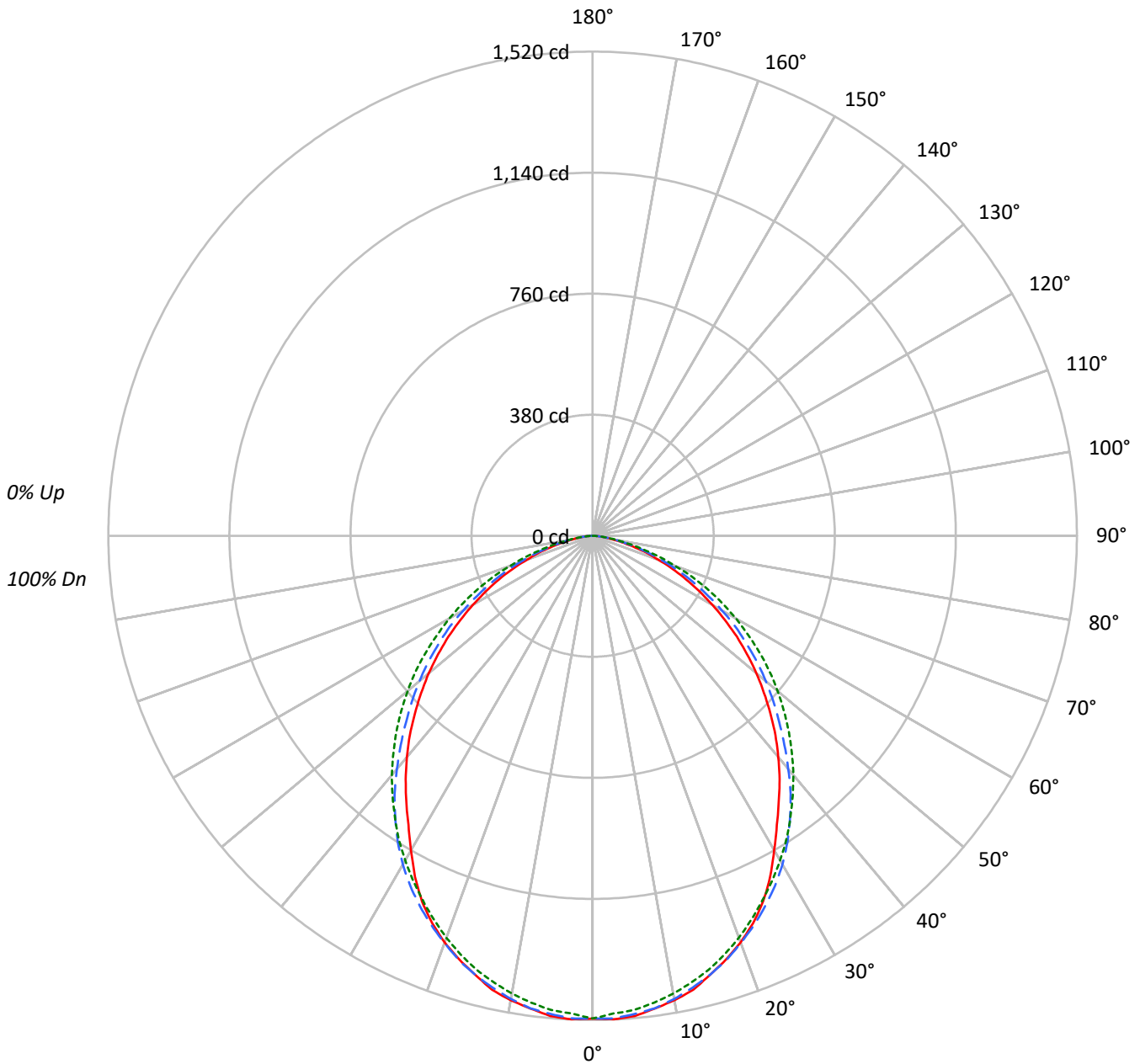
Lumens per Lamp: N/A
Luminaire Lumens: 3504.0 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8156	8156	8156
5°	8177	8143	8074
10°	8091	8069	7976
15°	7947	7947	7856
20°	7779	7789	7689
25°	7523	7616	7495
30°	7084	7402	7312
35°	6694	7095	7107
40°	6368	6712	6888
45°	6004	6305	6629
50°	5620	5942	6347
55°	5184	5529	6003
60°	4668	5044	5583
65°	4122	4485	5079
70°	3435	3821	4315
75°	2699	3051	3377
80°	1931	2148	2380
85°	1260	1260	1186



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	4.1
10°-20°	400.8	11.4
20°-30°	585.7	16.7
30°-40°	664.9	19.0
40°-50°	641.8	18.3
50°-60°	529.5	15.1
60°-70°	352.6	10.1
70°-80°	157.8	4.5
80°-90°	28.2	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°	1129.2	32.2
0°-40°	1794.1	51.2
0°-60°	2965.4	84.6
0°-90°	3504.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3504.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1515	1515	1515	1515	1515	
5°	1514	1513	1507	1499	1494	143
15°	1426	1430	1426	1420	1410	402
25°	1267	1277	1282	1273	1262	580
35°	1019	1033	1080	1086	1082	638
45°	789	802	828	866	871	609
55°	552	562	589	622	640	493
65°	324	332	352	377	399	321
75°	130	137	147	154	162	142
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1515.4	1515.4	1515.4	1515.4	1515.4
2.5°	1519.5	1520.0	1516.6	1507.2	1501.4
5°	1513.6	1513.1	1507.2	1499.1	1494.4
7.5°	1496.8	1497.9	1496.2	1484.5	1478.1
10°	1480.5	1481.0	1476.4	1467.1	1459.5
12.5°	1459.5	1458.9	1452.5	1447.9	1435.6
15°	1426.3	1429.8	1426.3	1419.9	1410.0
17.5°	1394.3	1394.3	1396.6	1385.6	1378.0
20°	1358.2	1360.0	1360.0	1351.2	1342.5
22.5°	1316.3	1321.5	1323.3	1314.0	1303.5
25°	1266.8	1276.7	1282.5	1273.2	1262.1
27.5°	1206.8	1222.0	1239.4	1232.5	1220.2
30°	1139.9	1162.0	1191.1	1185.3	1176.6
32.5°	1076.4	1098.6	1138.7	1136.4	1131.7
35°	1018.8	1032.8	1079.9	1085.7	1081.7
37.5°	964.1	976.9	1021.1	1034.5	1031.0
40°	906.4	920.4	955.3	979.2	980.4
42.5°	849.4	862.8	891.3	925.7	925.7
45°	788.8	802.2	828.4	866.3	870.9
47.5°	729.5	743.4	769.0	806.9	814.5
50°	671.2	684.1	709.7	746.3	758.0
52.5°	610.7	624.7	649.7	683.5	700.4
55°	552.5	561.8	589.2	621.8	639.8
57.5°	491.9	500.7	531.5	559.5	578.1
60°	433.7	444.8	468.6	497.2	518.7
62.5°	377.8	389.5	409.8	434.9	459.3
65°	323.7	332.4	352.2	377.2	398.8
67.5°	271.3	278.9	298.7	316.1	338.8
70°	218.3	228.2	242.8	259.6	274.2
72.5°	175.8	179.9	192.1	204.3	219.5
75°	129.8	136.8	146.7	153.7	162.4
77.5°	93.1	97.2	103.0	108.9	117.0
80°	62.3	64.0	69.3	70.4	76.8
82.5°	37.8	39.0	40.2	40.8	43.1
85°	20.4	20.4	20.4	19.2	19.2
87.5°	11.6	11.6	9.9	8.2	5.8
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)