

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: P556014

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-93-97-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: P556014
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-93-97-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

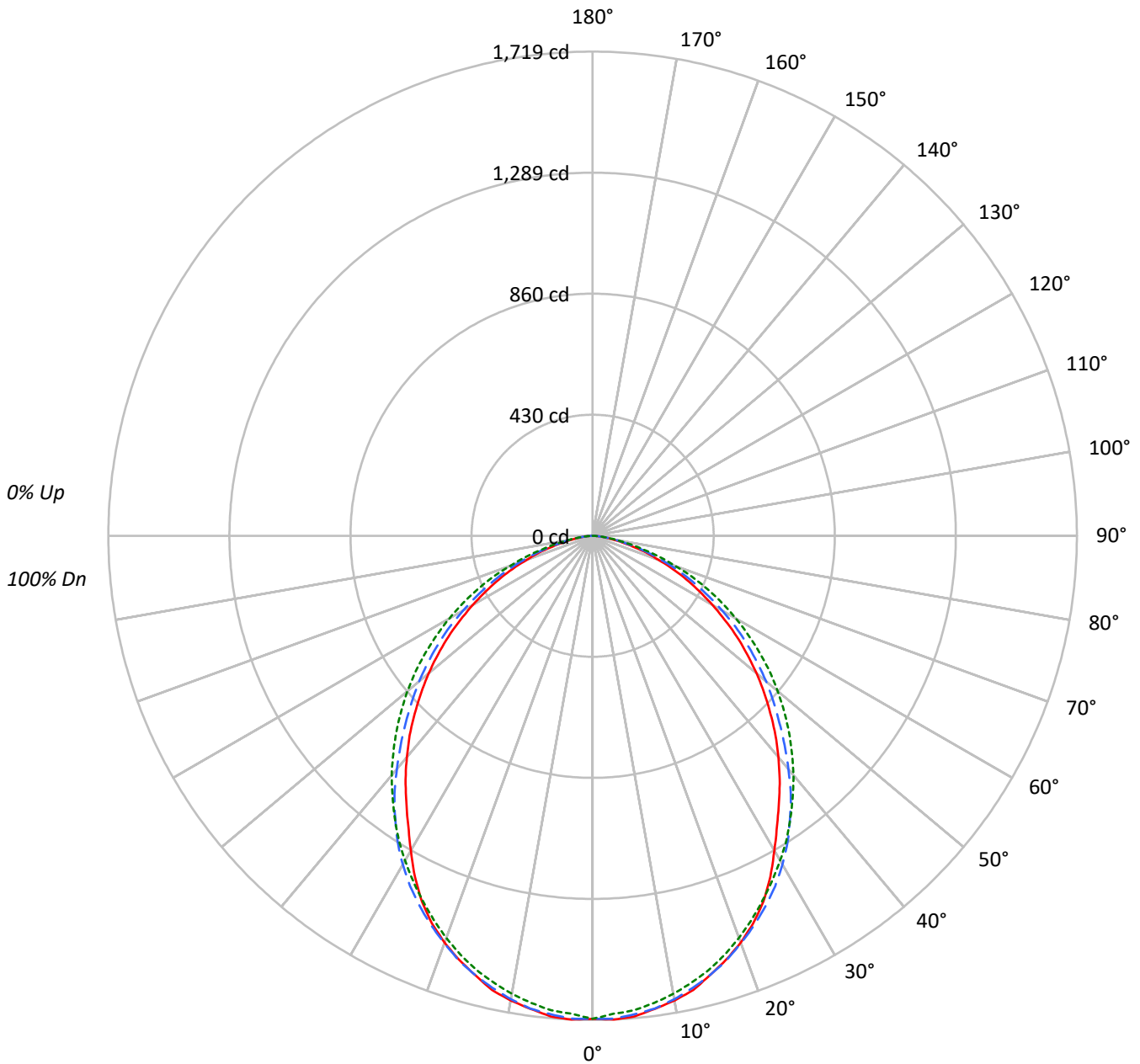
Lumens per Lamp: N/A
Luminaire Lumens: 3965.0 lumens
Efficiency: N/A
Efficacy: 79.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	9229	9229	9229
5°	9253	9214	9136
10°	9155	9130	9025
15°	8993	8993	8890
20°	8802	8814	8700
25°	8513	8618	8481
30°	8016	8376	8274
35°	7574	8029	8042
40°	7206	7595	7794
45°	6794	7135	7501
50°	6360	6723	7181
55°	5866	6256	6793
60°	5283	5708	6318
65°	4665	5076	5747
70°	3887	4323	4883
75°	3055	3452	3822
80°	2185	2430	2696
85°	1426	1426	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.4	4.1
10°-20°	453.6	11.4
20°-30°	662.8	16.7
30°-40°	752.3	19.0
40°-50°	726.3	18.3
50°-60°	599.1	15.1
60°-70°	399.0	10.1
70°-80°	178.5	4.5
80°-90°	31.9	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°	1277.8	32.2
0°-40°	2030.2	51.2
0°-60°	3355.6	84.6
0°-90°	3965.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3965.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1713	1712	1706	1696	1691	162
15°	1614	1618	1614	1607	1596	455
25°	1434	1445	1451	1441	1428	656
35°	1153	1169	1222	1229	1224	722
45°	893	908	937	980	986	689
55°	625	636	667	704	724	558
65°	366	376	399	427	451	363
75°	147	155	166	174	184	161
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1714.8	1714.8	1714.8	1714.8	1714.8
2.5°	1719.4	1720.0	1716.1	1705.5	1698.9
5°	1712.8	1712.1	1705.5	1696.3	1691.0
7.5°	1693.7	1695.0	1693.0	1679.8	1672.6
10°	1675.2	1675.9	1670.6	1660.1	1651.5
12.5°	1651.5	1650.9	1643.6	1638.3	1624.5
15°	1614.0	1617.9	1614.0	1606.7	1595.5
17.5°	1577.7	1577.7	1580.4	1567.9	1559.3
20°	1536.9	1538.9	1538.9	1529.0	1519.1
22.5°	1489.5	1495.4	1497.4	1486.8	1475.0
25°	1433.5	1444.7	1451.3	1440.7	1428.2
27.5°	1365.6	1382.7	1402.5	1394.6	1380.8
30°	1289.9	1314.9	1347.8	1341.2	1331.4
32.5°	1218.1	1243.1	1288.5	1285.9	1280.6
35°	1152.8	1168.6	1222.0	1228.6	1224.0
37.5°	1090.9	1105.4	1155.5	1170.6	1166.7
40°	1025.7	1041.5	1081.0	1108.0	1109.4
42.5°	961.1	976.3	1008.6	1047.4	1047.4
45°	892.6	907.8	937.4	980.2	985.5
47.5°	825.4	841.2	870.2	913.0	921.6
50°	759.6	774.0	803.0	844.5	857.7
52.5°	691.0	706.9	735.2	773.4	792.5
55°	625.2	635.7	666.7	703.6	724.0
57.5°	556.7	566.5	601.5	633.1	654.2
60°	490.8	503.3	530.3	562.6	587.0
62.5°	427.5	440.7	463.8	492.1	519.8
65°	366.3	376.2	398.6	426.9	451.3
67.5°	307.0	315.5	337.9	357.7	383.4
70°	247.0	258.2	274.7	293.8	310.3
72.5°	198.9	203.6	217.4	231.2	248.4
75°	146.9	154.8	166.0	173.9	183.8
77.5°	105.4	110.0	116.6	123.2	132.4
80°	70.5	72.5	78.4	79.7	87.0
82.5°	42.8	44.1	45.5	46.1	48.7
85°	23.1	23.1	23.1	21.7	21.7
87.5°	13.2	13.2	11.2	9.2	6.6
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)