

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: P555727

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-81-97-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: P555727
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-35-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

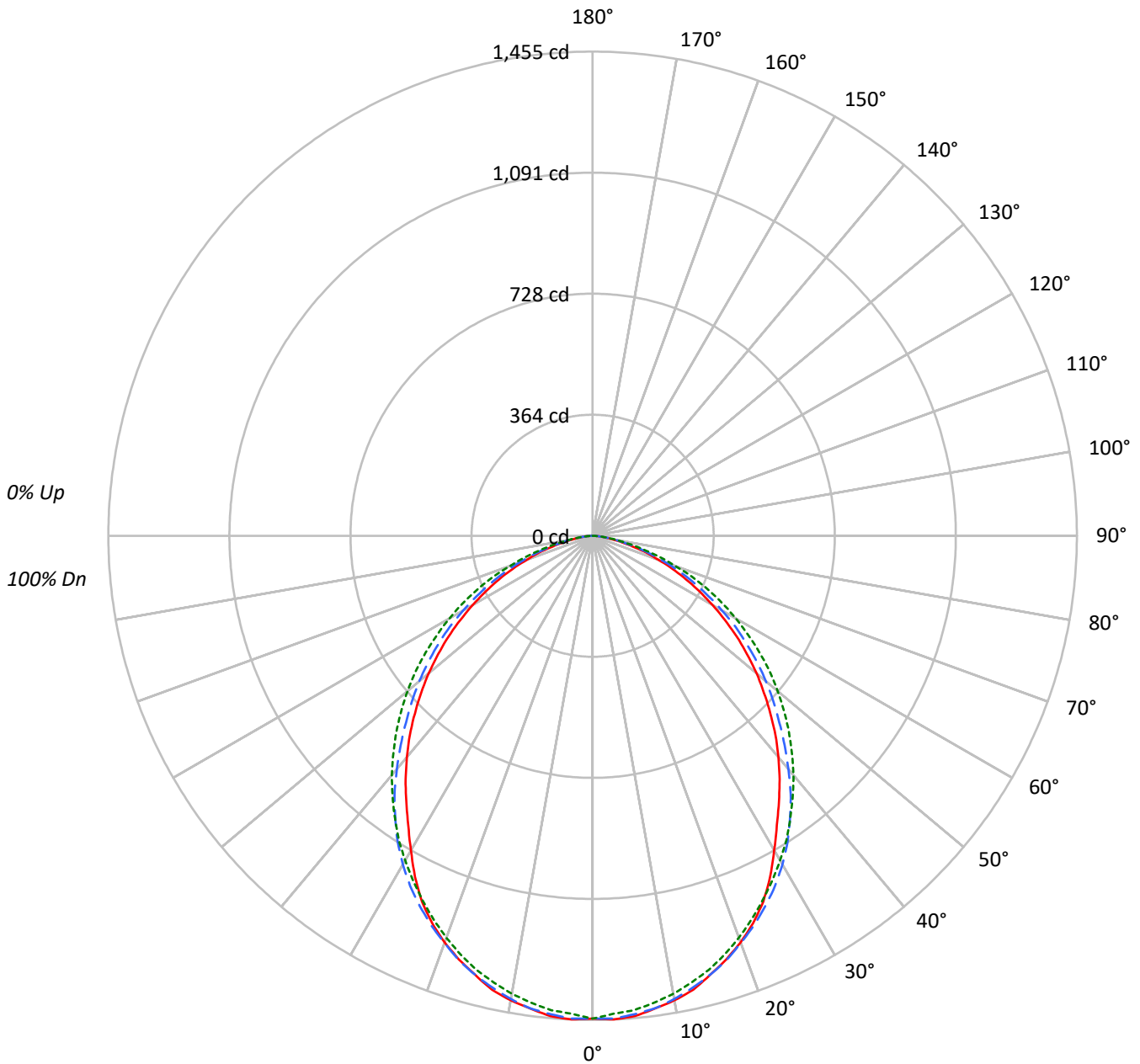
Lumens per Lamp: N/A
Luminaire Lumens: 3355.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7809	7809	7809
5°	7830	7796	7730
10°	7747	7725	7637
15°	7609	7609	7523
20°	7448	7458	7362
25°	7203	7292	7176
30°	6783	7088	7001
35°	6409	6794	6805
40°	6098	6426	6595
45°	5749	6037	6347
50°	5381	5689	6077
55°	4964	5293	5748
60°	4470	4830	5346
65°	3947	4294	4862
70°	3289	3657	4131
75°	2585	2922	3234
80°	1847	2055	2281
85°	1204	1204	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.6	4.1
10°-20°	383.8	11.4
20°-30°	560.8	16.7
30°-40°	636.6	19.0
40°-50°	614.5	18.3
50°-60°	507.0	15.1
60°-70°	337.6	10.1
70°-80°	151.1	4.5
80°-90°	27.0	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°	1081.2	32.2
0°-40°	1717.8	51.2
0°-60°	2839.3	84.6
0°-90°	3355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3355.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1451	1451	1451	1451	1451	
5°	1449	1449	1443	1435	1431	137
15°	1366	1369	1366	1360	1350	385
25°	1213	1222	1228	1219	1208	555
35°	976	989	1034	1040	1036	611
45°	755	768	793	829	834	583
55°	529	538	564	595	613	472
65°	310	318	337	361	382	307
75°	124	131	140	147	156	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1451.0	1451.0	1451.0	1451.0	1451.0
2.5°	1454.9	1455.4	1452.1	1443.1	1437.6
5°	1449.3	1448.7	1443.1	1435.3	1430.9
7.5°	1433.1	1434.2	1432.6	1421.4	1415.3
10°	1417.5	1418.1	1413.6	1404.7	1397.4
12.5°	1397.4	1396.9	1390.8	1386.3	1374.6
15°	1365.7	1369.0	1365.7	1359.5	1350.1
17.5°	1335.0	1335.0	1337.2	1326.6	1319.4
20°	1300.4	1302.1	1302.1	1293.8	1285.4
22.5°	1260.3	1265.3	1267.0	1258.1	1248.1
25°	1212.9	1222.4	1228.0	1219.1	1208.5
27.5°	1155.5	1170.0	1186.7	1180.0	1168.3
30°	1091.4	1112.6	1140.5	1134.9	1126.5
32.5°	1030.7	1051.8	1090.3	1088.1	1083.6
35°	975.5	988.9	1034.0	1039.6	1035.7
37.5°	923.1	935.3	977.7	990.5	987.2
40°	867.9	881.3	914.7	937.6	938.7
42.5°	813.3	826.1	853.4	886.3	886.3
45°	755.3	768.1	793.2	829.4	833.9
47.5°	698.4	711.8	736.3	772.6	779.8
50°	642.7	655.0	679.5	714.6	725.8
52.5°	584.7	598.1	622.1	654.4	670.6
55°	529.0	537.9	564.1	595.3	612.6
57.5°	471.0	479.4	508.9	535.7	553.5
60°	415.3	425.9	448.7	476.0	496.7
62.5°	361.8	372.9	392.4	416.4	439.8
65°	309.9	318.3	337.2	361.2	381.8
67.5°	259.8	267.0	286.0	302.7	324.4
70°	209.0	218.5	232.4	248.6	262.5
72.5°	168.3	172.2	183.9	195.7	210.1
75°	124.3	131.0	140.5	147.2	155.5
77.5°	89.2	93.1	98.7	104.2	112.0
80°	59.6	61.3	66.3	67.4	73.6
82.5°	36.2	37.3	38.5	39.0	41.2
85°	19.5	19.5	19.5	18.4	18.4
87.5°	11.1	11.1	9.5	7.8	5.6
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)