

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: P554684

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-80-96-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: P554684
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-LD4-2HI-35-UNV-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

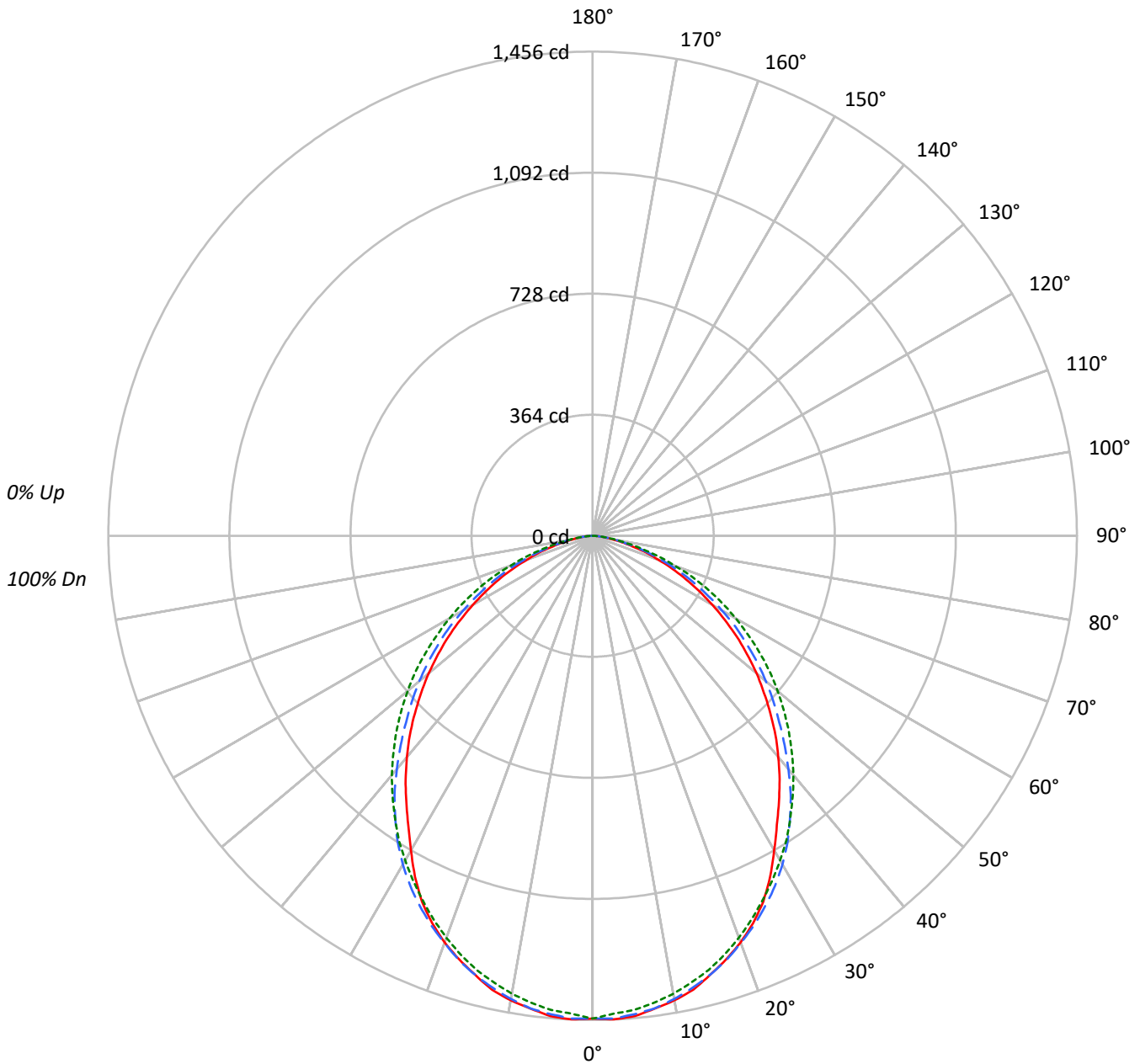
Lumens per Lamp: N/A
Luminaire Lumens: 3357.0 lumens
Efficiency: N/A
Efficacy: 77.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7814	7814	7814
5°	7834	7801	7735
10°	7752	7730	7642
15°	7614	7614	7527
20°	7452	7462	7367
25°	7207	7296	7181
30°	6787	7092	7005
35°	6413	6797	6809
40°	6101	6431	6598
45°	5752	6041	6351
50°	5385	5693	6080
55°	4967	5296	5752
60°	4472	4833	5350
65°	3949	4297	4866
70°	3292	3660	4134
75°	2587	2924	3236
80°	1850	2058	2281
85°	1204	1204	1136



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.7	4.1
10°-20°	384.0	11.4
20°-30°	561.2	16.7
30°-40°	637.0	19.0
40°-50°	614.9	18.3
50°-60°	507.3	15.1
60°-70°	337.8	10.1
70°-80°	151.2	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°	1081.9	32.2
0°-40°	1718.8	51.2
0°-60°	2841.0	84.6
0°-90°	3357.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3357.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1452	1452	1452	1452	1452	
5°	1450	1450	1444	1436	1432	137
15°	1366	1370	1366	1360	1351	385
25°	1214	1223	1229	1220	1209	556
35°	976	989	1035	1040	1036	612
45°	756	769	794	830	834	583
55°	529	538	564	596	613	472
65°	310	318	337	361	382	307
75°	124	131	141	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°	1451.8	1451.8	1451.8	1451.8	1451.8
2.5°	1455.7	1456.3	1452.9	1444.0	1438.4
5°	1450.1	1449.6	1444.0	1436.2	1431.7
7.5°	1434.0	1435.1	1433.4	1422.3	1416.1
10°	1418.4	1418.9	1414.4	1405.5	1398.3
12.5°	1398.3	1397.7	1391.6	1387.1	1375.4
15°	1366.5	1369.8	1366.5	1360.3	1350.9
17.5°	1335.8	1335.8	1338.0	1327.4	1320.2
20°	1301.2	1302.9	1302.9	1294.5	1286.2
22.5°	1261.1	1266.1	1267.8	1258.8	1248.8
25°	1213.7	1223.1	1228.7	1219.8	1209.2
27.5°	1156.2	1170.7	1187.4	1180.8	1169.0
30°	1092.1	1113.3	1141.2	1135.6	1127.2
32.5°	1031.3	1052.5	1091.0	1088.7	1084.3
35°	976.1	989.4	1034.6	1040.2	1036.3
37.5°	923.6	935.9	978.3	991.1	987.8
40°	868.4	881.8	915.3	938.1	939.2
42.5°	813.8	826.6	853.9	886.8	886.8
45°	755.7	768.6	793.7	829.9	834.4
47.5°	698.9	712.2	736.8	773.0	780.3
50°	643.1	655.4	679.9	715.0	726.2
52.5°	585.1	598.5	622.4	654.8	671.0
55°	529.3	538.2	564.4	595.7	613.0
57.5°	471.3	479.7	509.2	536.0	553.8
60°	415.5	426.1	449.0	476.3	497.0
62.5°	362.0	373.1	392.7	416.6	440.1
65°	310.1	318.5	337.4	361.4	382.1
67.5°	259.9	267.2	286.1	302.9	324.6
70°	209.2	218.6	232.6	248.8	262.7
72.5°	168.4	172.3	184.1	195.8	210.3
75°	124.4	131.1	140.6	147.2	155.6
77.5°	89.2	93.1	98.7	104.3	112.1
80°	59.7	61.4	66.4	67.5	73.6
82.5°	36.3	37.4	38.5	39.0	41.3
85°	19.5	19.5	19.5	18.4	18.4
87.5°	11.2	11.2	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)