

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: P554722

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-93-85-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: P554722
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-93-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

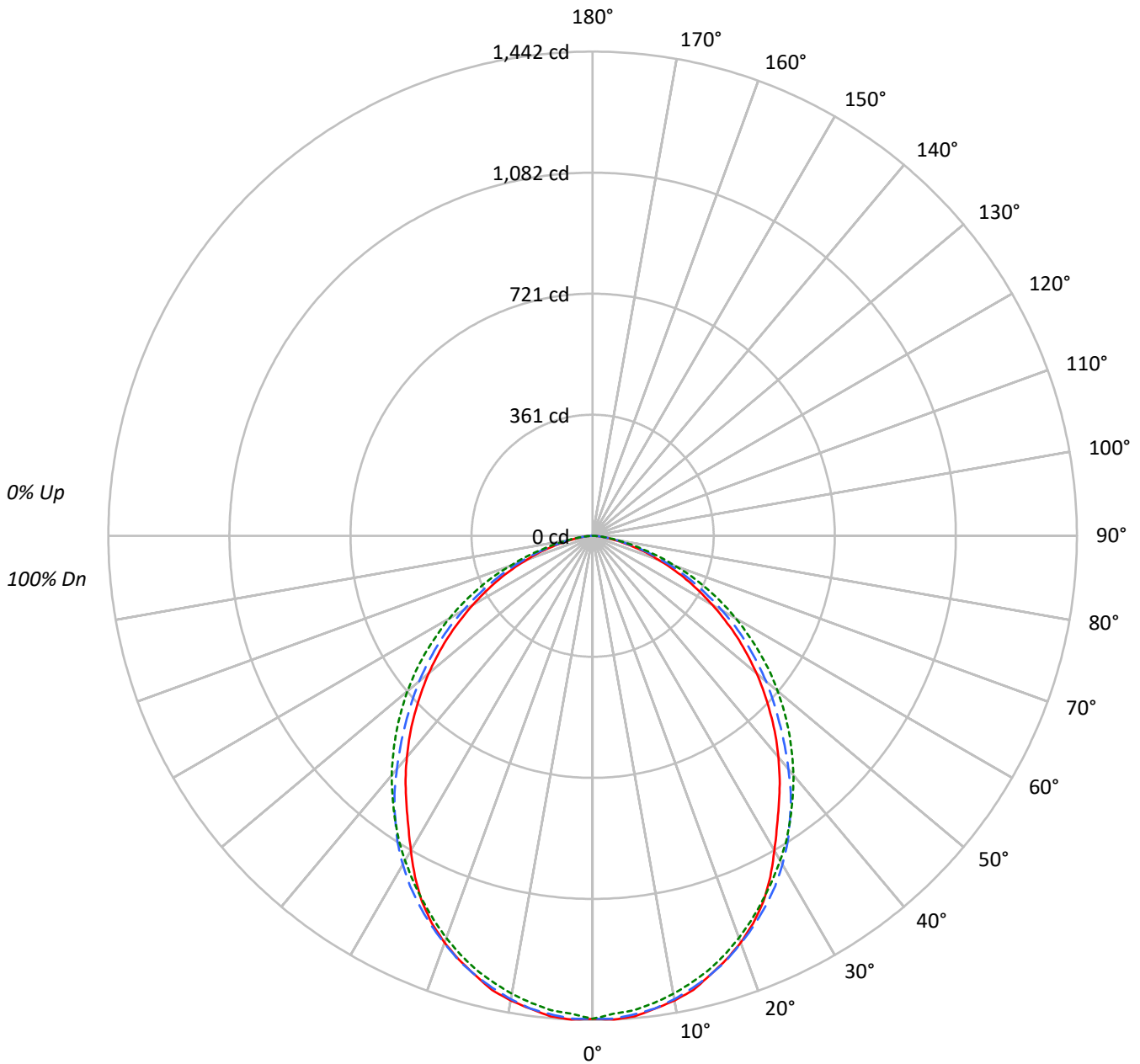
Lumens per Lamp: N/A
Luminaire Lumens: 3326.0 lumens
Efficiency: N/A
Efficacy: 77.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7741	7741	7741
5°	7762	7729	7663
10°	7680	7659	7571
15°	7544	7544	7457
20°	7384	7393	7298
25°	7141	7229	7114
30°	6724	7026	6940
35°	6353	6735	6746
40°	6045	6371	6538
45°	5699	5985	6292
50°	5334	5640	6024
55°	4921	5247	5698
60°	4432	4788	5300
65°	3912	4257	4820
70°	3260	3626	4096
75°	2562	2897	3206
80°	1832	2039	2259
85°	1192	1192	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.4	4.1
10°-20°	380.5	11.4
20°-30°	556.0	16.7
30°-40°	631.1	19.0
40°-50°	609.2	18.3
50°-60°	502.6	15.1
60°-70°	334.7	10.1
70°-80°	149.8	4.5
80°-90°	26.8	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°	1071.9	32.2
0°-40°	1703.0	51.2
0°-60°	2814.8	84.6
0°-90°	3326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3326.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1438	1438	1438	1438	1438	
5°	1437	1436	1431	1423	1418	136
15°	1354	1357	1354	1348	1338	382
25°	1202	1212	1217	1208	1198	551
35°	967	980	1025	1031	1027	606
45°	749	762	786	822	827	578
55°	524	533	559	590	607	468
65°	307	316	334	358	378	305
75°	123	130	139	146	154	135
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1438.4	1438.4	1438.4	1438.4	1438.4
2.5°	1442.3	1442.8	1439.5	1430.7	1425.1
5°	1436.8	1436.2	1430.7	1422.9	1418.5
7.5°	1420.7	1421.8	1420.2	1409.1	1403.0
10°	1405.3	1405.8	1401.4	1392.5	1385.4
12.5°	1385.4	1384.8	1378.7	1374.3	1362.7
15°	1353.9	1357.2	1353.9	1347.8	1338.4
17.5°	1323.5	1323.5	1325.7	1315.2	1308.0
20°	1289.2	1290.9	1290.9	1282.6	1274.3
22.5°	1249.4	1254.4	1256.1	1247.2	1237.3
25°	1202.5	1211.8	1217.4	1208.5	1198.0
27.5°	1145.5	1159.9	1176.5	1169.8	1158.2
30°	1082.0	1103.0	1130.6	1125.1	1116.8
32.5°	1021.8	1042.7	1080.9	1078.7	1074.2
35°	967.0	980.3	1025.1	1030.6	1026.7
37.5°	915.1	927.3	969.3	982.0	978.6
40°	860.4	873.7	906.8	929.5	930.6
42.5°	806.2	818.9	846.0	878.6	878.6
45°	748.8	761.5	786.3	822.3	826.7
47.5°	692.4	705.7	730.0	765.9	773.1
50°	637.1	649.3	673.6	708.4	719.5
52.5°	579.7	592.9	616.7	648.7	664.8
55°	524.4	533.3	559.2	590.2	607.3
57.5°	466.9	475.2	504.5	531.0	548.7
60°	411.7	422.2	444.8	471.9	492.4
62.5°	358.6	369.7	389.0	412.8	436.0
65°	307.2	315.5	334.3	358.1	378.5
67.5°	257.5	264.7	283.5	300.1	321.6
70°	207.2	216.6	230.4	246.5	260.3
72.5°	166.9	170.8	182.4	194.0	208.3
75°	123.2	129.9	139.3	145.9	154.2
77.5°	88.4	92.3	97.8	103.3	111.1
80°	59.1	60.8	65.8	66.9	72.9
82.5°	35.9	37.0	38.1	38.7	40.9
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.1	11.1	9.4	7.7	5.5
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)