

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: P555649

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-84-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: P555649
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-30-UNV-81-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

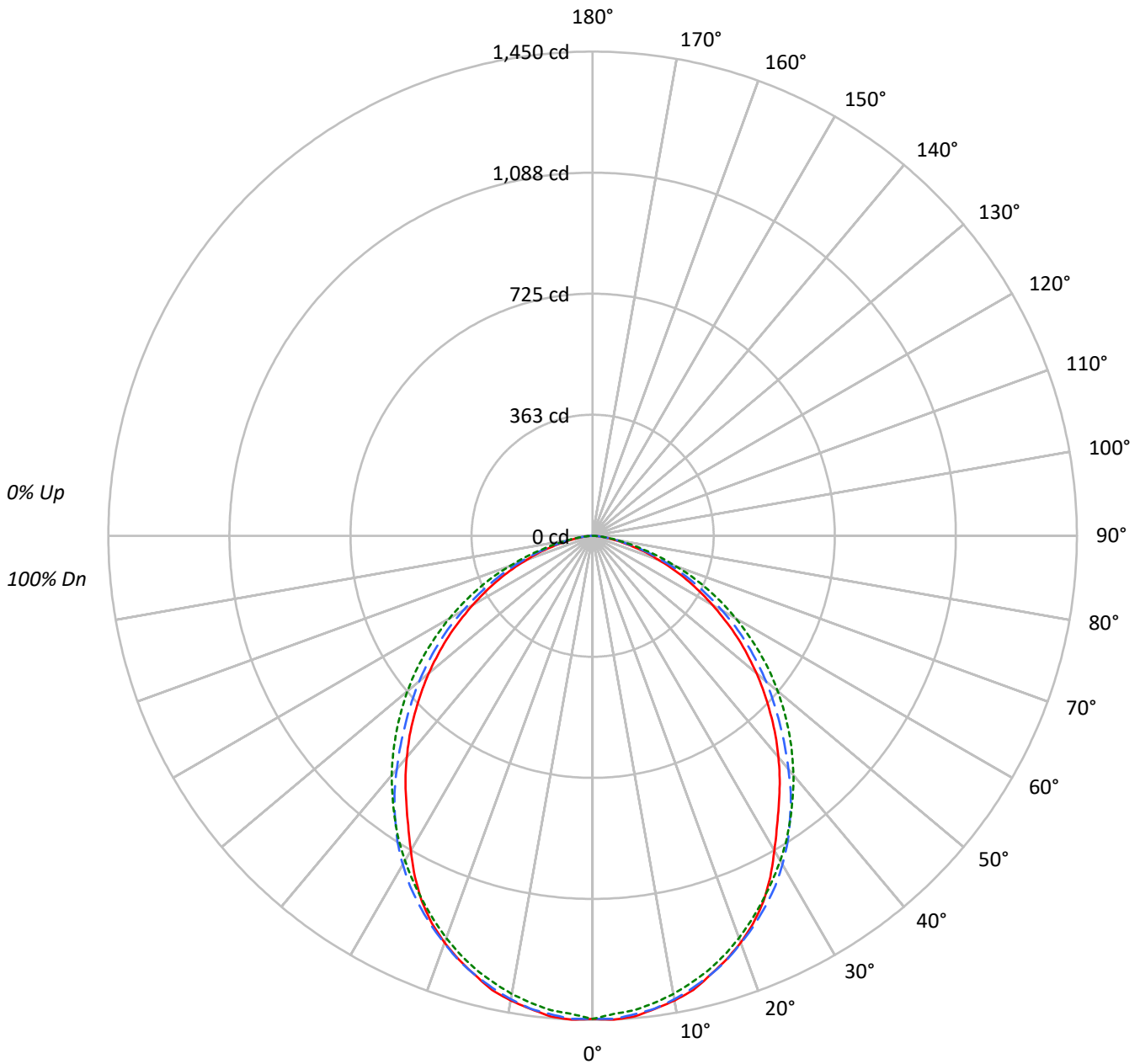
Lumens per Lamp: N/A
Luminaire Lumens: 3345.0 lumens
Efficiency: N/A
Efficacy: 95.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	7786	7786	7786
5°	7807	7773	7707
10°	7724	7702	7614
15°	7587	7587	7500
20°	7426	7435	7340
25°	7181	7270	7155
30°	6763	7067	6980
35°	6390	6773	6784
40°	6079	6407	6575
45°	5731	6019	6328
50°	5365	5673	6059
55°	4949	5277	5731
60°	4456	4816	5330
65°	3935	4281	4848
70°	3279	3646	4120
75°	2576	2911	3225
80°	1844	2049	2275
85°	1204	1204	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.2	4.1
10°-20°	382.6	11.4
20°-30°	559.2	16.7
30°-40°	634.7	19.0
40°-50°	612.7	18.3
50°-60°	505.4	15.1
60°-70°	336.6	10.1
70°-80°	150.6	4.5
80°-90°	26.9	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°	1078.0	32.2
0°-40°	1712.7	51.2
0°-60°	2830.9	84.6
0°-90°	3345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3345.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1447	1447	1447	1447	1447	
5°	1445	1444	1439	1431	1427	137
15°	1362	1365	1362	1356	1346	384
25°	1209	1219	1224	1215	1205	554
35°	973	986	1031	1036	1033	609
45°	753	766	791	827	831	581
55°	527	536	562	594	611	471
65°	309	317	336	360	381	306
75°	124	131	140	147	155	135
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°	1446.6	1446.6	1446.6	1446.6	1446.6
2.5°	1450.5	1451.1	1447.7	1438.8	1433.3
5°	1445.0	1444.4	1438.8	1431.1	1426.6
7.5°	1428.8	1430.0	1428.3	1417.2	1411.1
10°	1413.3	1413.8	1409.4	1400.5	1393.3
12.5°	1393.3	1392.7	1386.6	1382.2	1370.5
15°	1361.6	1364.9	1361.6	1355.5	1346.0
17.5°	1331.0	1331.0	1333.3	1322.7	1315.5
20°	1296.6	1298.2	1298.2	1289.9	1281.6
22.5°	1256.6	1261.6	1263.2	1254.3	1244.3
25°	1209.3	1218.8	1224.3	1215.4	1204.9
27.5°	1152.1	1166.5	1183.2	1176.5	1164.9
30°	1088.2	1109.3	1137.1	1131.5	1123.2
32.5°	1027.6	1048.7	1087.1	1084.8	1080.4
35°	972.6	985.9	1030.9	1036.5	1032.6
37.5°	920.3	932.6	974.8	987.6	984.2
40°	865.3	878.6	912.0	934.8	935.9
42.5°	810.8	823.6	850.9	883.6	883.6
45°	753.0	765.8	790.8	827.0	831.4
47.5°	696.4	709.7	734.2	770.3	777.5
50°	640.8	653.0	677.5	712.5	723.6
52.5°	583.0	596.3	620.2	652.5	668.6
55°	527.4	536.3	562.4	593.5	610.8
57.5°	469.6	477.9	507.4	534.1	551.9
60°	414.0	424.6	447.4	474.6	495.2
62.5°	360.7	371.8	391.3	415.1	438.5
65°	309.0	317.3	336.2	360.1	380.7
67.5°	259.0	266.2	285.1	301.8	323.4
70°	208.4	217.9	231.7	247.9	261.8
72.5°	167.8	171.7	183.4	195.1	209.5
75°	123.9	130.6	140.0	146.7	155.1
77.5°	88.9	92.8	98.4	103.9	111.7
80°	59.5	61.1	66.1	67.2	73.4
82.5°	36.1	37.2	38.3	38.9	41.1
85°	19.5	19.5	19.5	18.3	18.3
87.5°	11.1	11.1	9.4	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)