

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: P555255

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-87-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: P555255
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-LD4-2STD-40-UNV-80-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

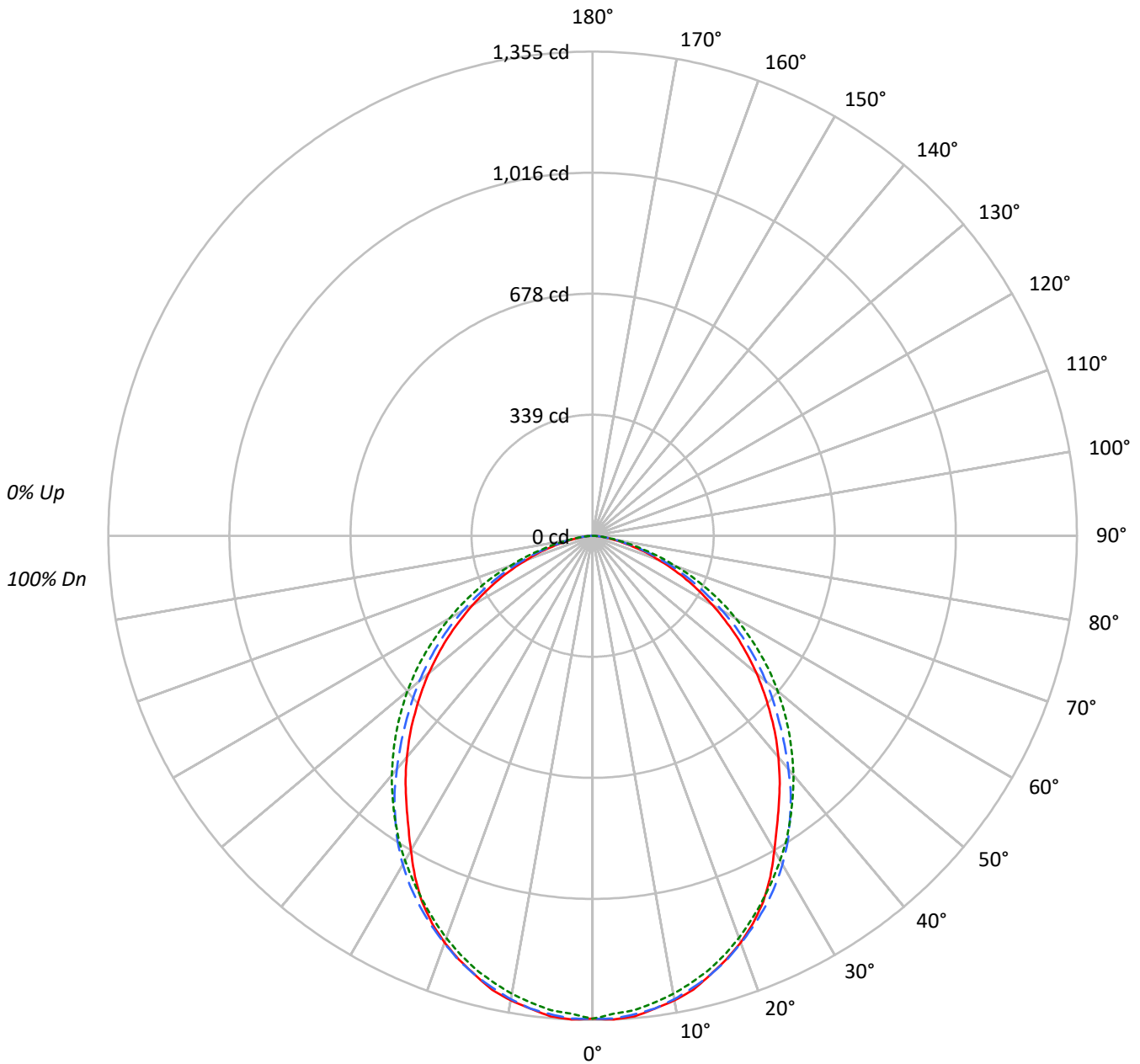
Lumens per Lamp: N/A
Luminaire Lumens: 3125.0 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7274	7274	7274
5°	7293	7262	7200
10°	7215	7196	7113
15°	7087	7087	7007
20°	6938	6947	6857
25°	6709	6792	6684
30°	6318	6602	6521
35°	5970	6328	6338
40°	5680	5986	6143
45°	5355	5623	5912
50°	5012	5299	5660
55°	4623	4930	5354
60°	4163	4499	4979
65°	3677	4000	4530
70°	3064	3407	3847
75°	2408	2720	3013
80°	1723	1915	2123
85°	1124	1124	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	4.1
10°-20°	357.5	11.4
20°-30°	522.4	16.7
30°-40°	593.0	19.0
40°-50°	572.4	18.3
50°-60°	472.2	15.1
60°-70°	314.4	10.1
70°-80°	140.7	4.5
80°-90°	25.2	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°	1007.1	32.2
0°-40°	1600.1	51.2
0°-60°	2644.7	84.6
0°-90°	3125.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3125.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1352	1352	1352	1352	1352	
5°	1350	1349	1344	1337	1333	128
15°	1272	1275	1272	1266	1258	359
25°	1130	1139	1144	1136	1126	517
35°	909	921	963	968	965	569
45°	704	716	739	773	777	543
55°	493	501	525	554	571	440
65°	289	296	314	336	356	286
75°	116	122	131	137	145	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.5	1351.5	1351.5	1351.5	1351.5
2.5°	1355.1	1355.6	1352.5	1344.2	1339.0
5°	1349.9	1349.4	1344.2	1336.9	1332.8
7.5°	1334.9	1335.9	1334.3	1324.0	1318.3
10°	1320.3	1320.8	1316.7	1308.4	1301.6
12.5°	1301.6	1301.1	1295.4	1291.3	1280.4
15°	1272.0	1275.2	1272.0	1266.3	1257.5
17.5°	1243.5	1243.5	1245.6	1235.7	1229.0
20°	1211.3	1212.9	1212.9	1205.1	1197.3
22.5°	1173.9	1178.6	1180.1	1171.8	1162.5
25°	1129.8	1138.6	1143.8	1135.5	1125.6
27.5°	1076.3	1089.8	1105.4	1099.1	1088.2
30°	1016.6	1036.3	1062.3	1057.1	1049.3
32.5°	960.0	979.7	1015.6	1013.5	1009.3
35°	908.6	921.1	963.1	968.3	964.7
37.5°	859.8	871.2	910.7	922.6	919.5
40°	808.4	820.9	852.0	873.3	874.3
42.5°	757.5	769.5	794.9	825.5	825.5
45°	703.5	715.5	738.8	772.6	776.7
47.5°	650.6	663.0	685.9	719.6	726.4
50°	598.6	610.1	632.9	665.6	676.0
52.5°	544.6	557.1	579.4	609.5	624.6
55°	492.7	501.0	525.4	554.5	570.6
57.5°	438.7	446.5	474.0	499.0	515.6
60°	386.8	396.7	418.0	443.4	462.6
62.5°	337.0	347.3	365.5	387.8	409.7
65°	288.7	296.5	314.1	336.4	355.7
67.5°	241.9	248.7	266.4	281.9	302.2
70°	194.7	203.5	216.5	231.6	244.5
72.5°	156.8	160.4	171.3	182.2	195.7
75°	115.8	122.0	130.8	137.1	144.9
77.5°	83.1	86.7	91.9	97.1	104.4
80°	55.6	57.1	61.8	62.8	68.5
82.5°	33.7	34.8	35.8	36.3	38.4
85°	18.2	18.2	18.2	17.1	17.1
87.5°	10.4	10.4	8.8	7.3	5.2
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)