

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: P555279

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-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: P555279
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-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 4000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

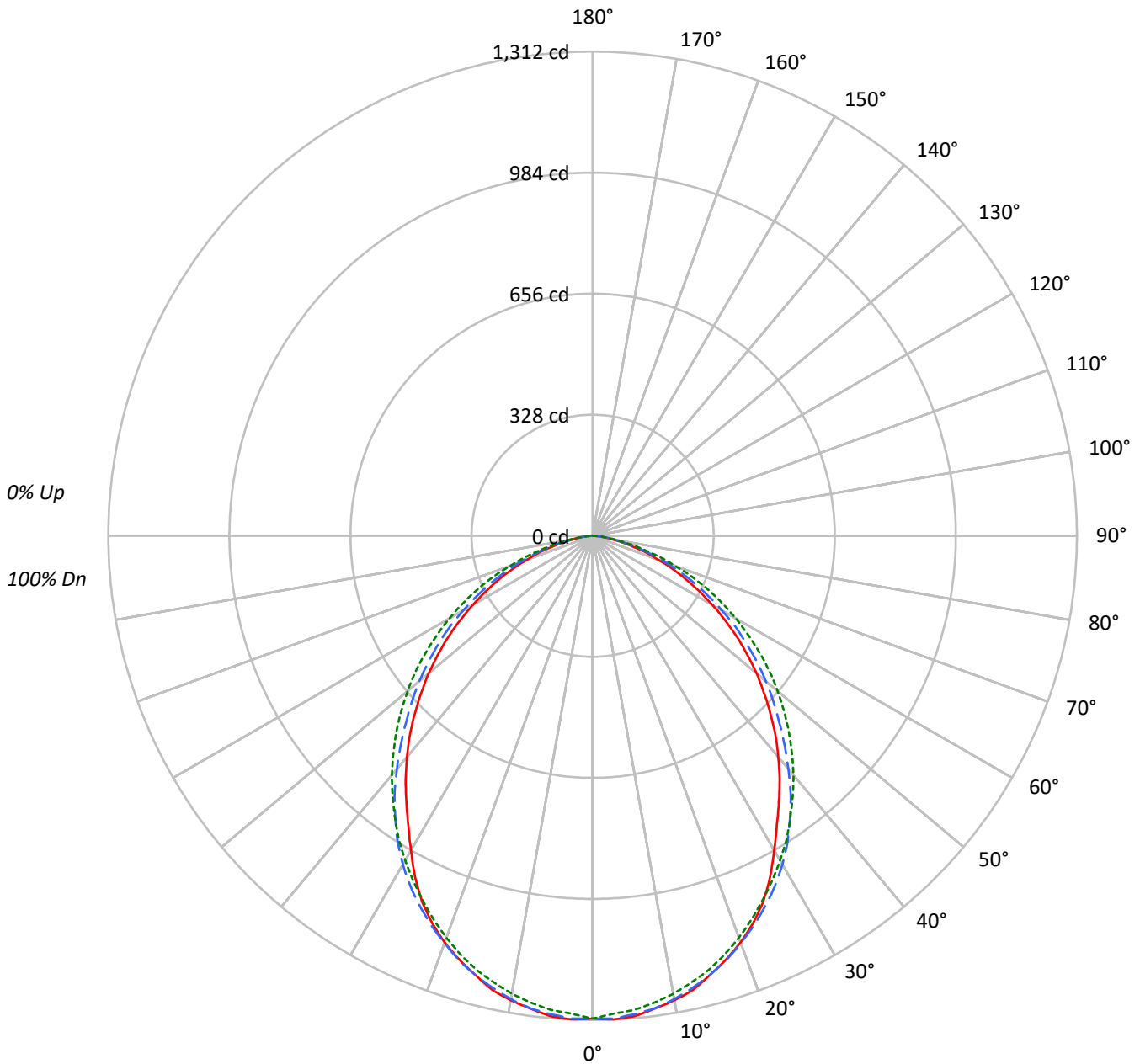
Lumens per Lamp: N/A
Luminaire Lumens: 3025.0 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7041	7041	7041
5°	7059	7030	6970
10°	6985	6966	6886
15°	6861	6861	6783
20°	6715	6724	6638
25°	6494	6575	6470
30°	6116	6390	6312
35°	5778	6125	6135
40°	5498	5794	5947
45°	5183	5444	5723
50°	4852	5130	5479
55°	4476	4772	5182
60°	4030	4355	4820
65°	3558	3873	4385
70°	2966	3298	3725
75°	2331	2635	2915
80°	1667	1853	2055
85°	1087	1087	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.2	4.1
10°-20°	346.0	11.4
20°-30°	505.7	16.7
30°-40°	574.0	19.0
40°-50°	554.1	18.3
50°-60°	457.1	15.1
60°-70°	304.4	10.1
70°-80°	136.2	4.5
80°-90°	24.4	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°	974.9	32.2
0°-40°	1548.9	51.2
0°-60°	2560.0	84.6
0°-90°	3025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3025.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1307	1306	1301	1294	1290	124
15°	1231	1234	1231	1226	1217	347
25°	1094	1102	1107	1099	1090	501
35°	880	892	932	937	934	551
45°	681	693	715	748	752	525
55°	477	485	509	537	552	426
65°	279	287	304	326	344	277
75°	112	118	127	133	140	123
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.2	1308.2	1308.2	1308.2	1308.2
2.5°	1311.8	1312.3	1309.2	1301.2	1296.2
5°	1306.7	1306.2	1301.2	1294.2	1290.1
7.5°	1292.2	1293.2	1291.6	1281.6	1276.1
10°	1278.1	1278.6	1274.6	1266.5	1260.0
12.5°	1260.0	1259.5	1254.0	1249.9	1239.4
15°	1231.3	1234.4	1231.3	1225.8	1217.3
17.5°	1203.7	1203.7	1205.7	1196.2	1189.6
20°	1172.5	1174.0	1174.0	1166.5	1159.0
22.5°	1136.3	1140.9	1142.4	1134.3	1125.3
25°	1093.6	1102.2	1107.2	1099.2	1089.6
27.5°	1041.9	1054.9	1070.0	1064.0	1053.4
30°	984.1	1003.2	1028.3	1023.3	1015.7
32.5°	929.3	948.4	983.1	981.1	977.0
35°	879.5	891.6	932.3	937.3	933.8
37.5°	832.3	843.3	881.5	893.1	890.1
40°	782.5	794.6	824.7	845.4	846.4
42.5°	733.3	744.8	769.5	799.1	799.1
45°	681.0	692.6	715.2	747.8	751.9
47.5°	629.7	641.8	663.9	696.6	703.1
50°	579.5	590.5	612.7	644.3	654.4
52.5°	527.2	539.3	560.9	590.0	604.6
55°	477.0	485.0	508.6	536.8	552.3
57.5°	424.7	432.2	458.9	483.0	499.1
60°	374.4	384.0	404.6	429.2	447.8
62.5°	326.2	336.2	353.8	375.4	396.5
65°	279.4	287.0	304.1	325.7	344.3
67.5°	234.2	240.7	257.8	272.9	292.5
70°	188.5	197.0	209.6	224.2	236.7
72.5°	151.8	155.3	165.9	176.4	189.5
75°	112.1	118.1	126.7	132.7	140.2
77.5°	80.4	83.9	89.0	94.0	101.0
80°	53.8	55.3	59.8	60.8	66.3
82.5°	32.7	33.7	34.7	35.2	37.2
85°	17.6	17.6	17.6	16.6	16.6
87.5°	10.1	10.1	8.5	7.0	5.0
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)