

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: P555335

Luminaire Tested: **FUSL-12-2-LD4-2STD-50-UNV-81-87-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: P555335
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-50-UNV-81-87-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

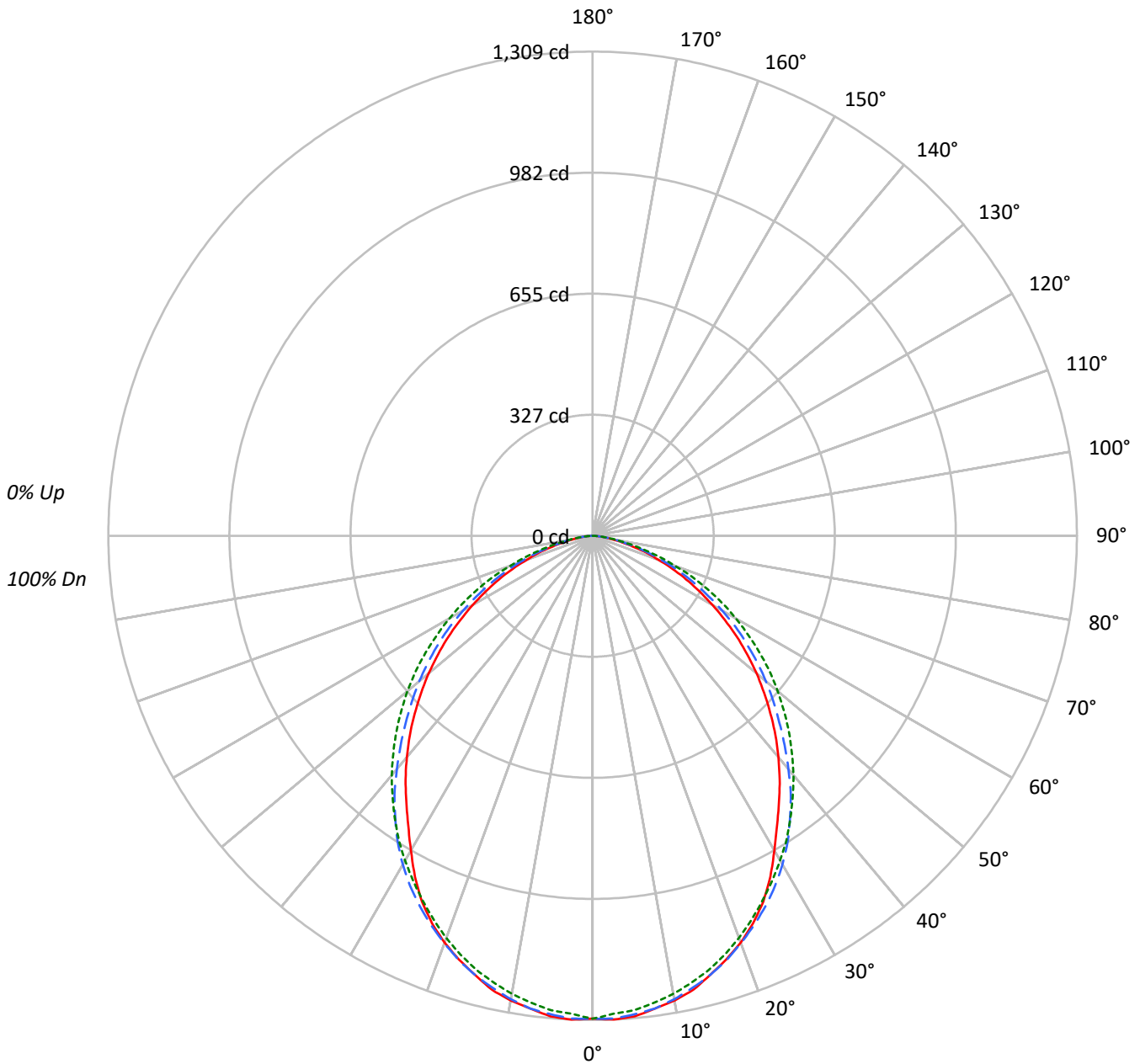
Lumens per Lamp: N/A
Luminaire Lumens: 3019.0 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7027	7027	7027
5°	7045	7016	6956
10°	6971	6951	6872
15°	6847	6847	6769
20°	6702	6711	6625
25°	6482	6562	6457
30°	6103	6378	6300
35°	5767	6113	6123
40°	5487	5783	5935
45°	5173	5433	5711
50°	4842	5119	5468
55°	4466	4763	5172
60°	4022	4346	4810
65°	3552	3865	4376
70°	2960	3292	3717
75°	2327	2628	2909
80°	1664	1850	2052
85°	1087	1087	1025



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	4.1
10°-20°	345.3	11.4
20°-30°	504.7	16.7
30°-40°	572.8	19.0
40°-50°	553.0	18.3
50°-60°	456.2	15.1
60°-70°	303.8	10.1
70°-80°	135.9	4.5
80°-90°	24.3	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°	972.9	32.2
0°-40°	1545.8	51.2
0°-60°	2555.0	84.6
0°-90°	3019.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3019.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1306	1306	1306	1306	1306	
5°	1304	1304	1299	1292	1288	123
15°	1229	1232	1229	1223	1215	346
25°	1092	1100	1105	1097	1087	500
35°	878	890	930	936	932	550
45°	680	691	714	746	750	524
55°	476	484	508	536	551	425
65°	279	286	304	325	344	277
75°	112	118	126	132	140	122
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°	1305.6	1305.6	1305.6	1305.6	1305.6
2.5°	1309.2	1309.7	1306.6	1298.6	1293.6
5°	1304.1	1303.6	1298.6	1291.6	1287.6
7.5°	1289.6	1290.6	1289.1	1279.1	1273.5
10°	1275.5	1276.0	1272.0	1264.0	1257.5
12.5°	1257.5	1257.0	1251.5	1247.5	1236.9
15°	1228.9	1231.9	1228.9	1223.4	1214.9
17.5°	1201.3	1201.3	1203.3	1193.8	1187.3
20°	1170.2	1171.7	1171.7	1164.2	1156.7
22.5°	1134.1	1138.6	1140.1	1132.1	1123.1
25°	1091.5	1100.0	1105.0	1097.0	1087.4
27.5°	1039.8	1052.8	1067.9	1061.9	1051.3
30°	982.1	1001.2	1026.3	1021.2	1013.7
32.5°	927.4	946.5	981.1	979.1	975.1
35°	877.8	889.8	930.4	935.5	932.0
37.5°	830.6	841.7	879.8	891.3	888.3
40°	781.0	793.0	823.1	843.7	844.7
42.5°	731.8	743.4	767.9	797.5	797.5
45°	679.7	691.2	713.8	746.4	750.4
47.5°	628.5	640.5	662.6	695.2	701.7
50°	578.3	589.4	611.4	643.0	653.1
52.5°	526.2	538.2	559.8	588.9	603.4
55°	476.0	484.0	507.6	535.7	551.2
57.5°	423.8	431.4	458.0	482.0	498.1
60°	373.7	383.2	403.8	428.4	446.9
62.5°	325.5	335.6	353.1	374.7	395.8
65°	278.9	286.4	303.5	325.0	343.6
67.5°	233.7	240.3	257.3	272.4	291.9
70°	188.1	196.6	209.2	223.7	236.2
72.5°	151.5	155.0	165.5	176.1	189.1
75°	111.9	117.9	126.4	132.4	139.9
77.5°	80.3	83.8	88.8	93.8	100.8
80°	53.7	55.2	59.7	60.7	66.2
82.5°	32.6	33.6	34.6	35.1	37.1
85°	17.6	17.6	17.6	16.6	16.6
87.5°	10.0	10.0	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)