

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: P554358

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-80-87-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: P554358
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-LD4-1STD-30-UNV-80-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

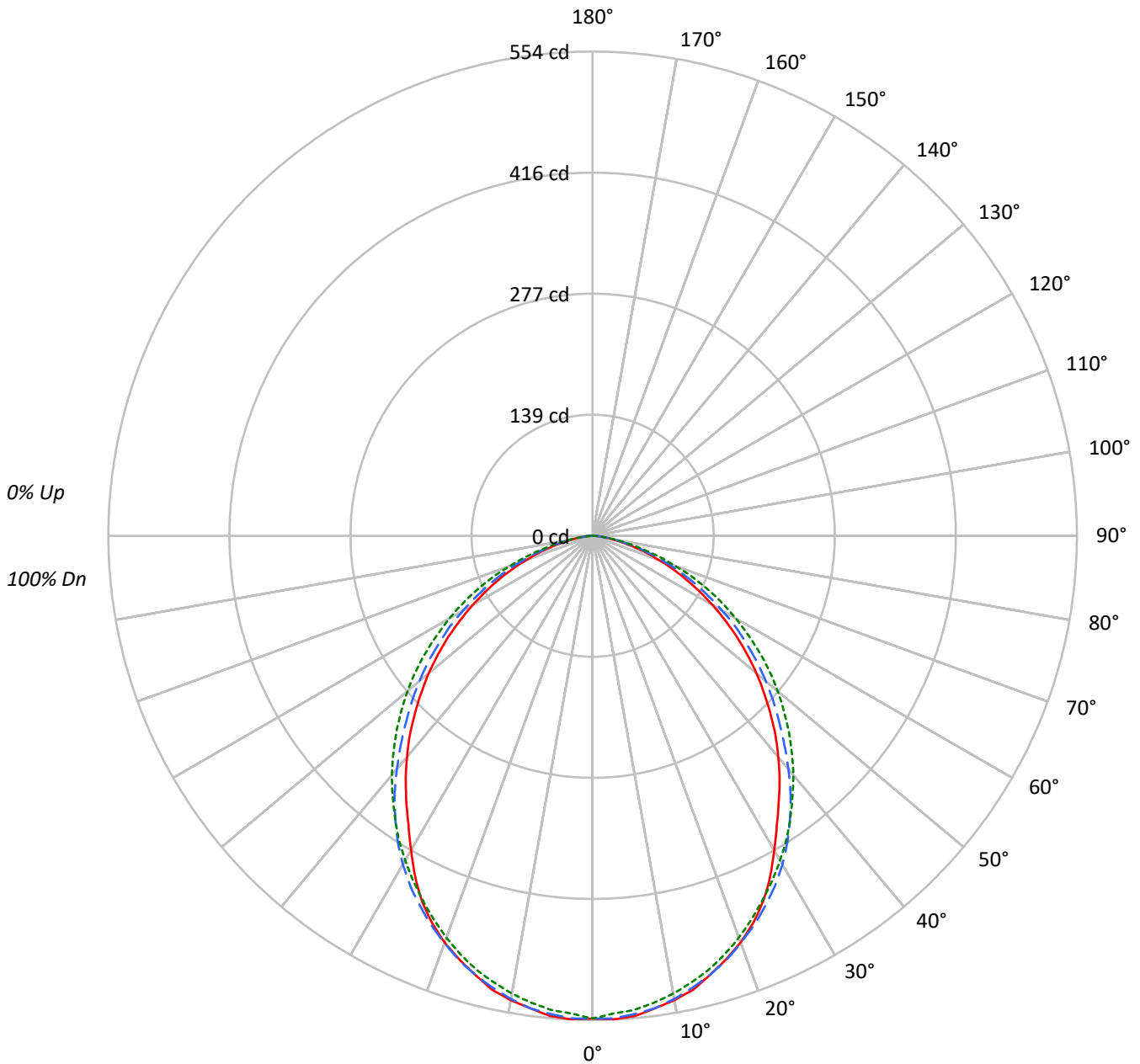
Lumens per Lamp: N/A
Luminaire Lumens: 1277.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	2972	2972	2972
5°	2980	2968	2942
10°	2948	2941	2907
15°	2896	2896	2863
20°	2835	2838	2802
25°	2742	2776	2732
30°	2582	2698	2665
35°	2439	2586	2590
40°	2321	2446	2510
45°	2188	2298	2416
50°	2048	2165	2313
55°	1889	2015	2188
60°	1702	1838	2034
65°	1503	1635	1850
70°	1253	1393	1572
75°	984	1112	1231
80°	704	781	868
85°	457	457	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	4.1
10°-20°	146.1	11.4
20°-30°	213.5	16.7
30°-40°	242.3	19.0
40°-50°	233.9	18.3
50°-60°	193.0	15.1
60°-70°	128.5	10.1
70°-80°	57.5	4.5
80°-90°	10.3	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°	411.5	32.2
0°-40°	653.9	51.2
0°-60°	1080.7	84.6
0°-90°	1277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1277.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	552	552	552	552	552	
5°	552	551	549	546	545	52
15°	520	521	520	518	514	147
25°	462	465	467	464	460	211
35°	371	376	394	396	394	233
45°	288	292	302	316	317	222
55°	201	205	215	227	233	180
65°	118	121	128	138	145	117
75°	47	50	54	56	59	52
85°	7	7	7	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	552.3	552.3	552.3	552.3	552.3
2.5°	553.8	554.0	552.7	549.3	547.2
5°	551.6	551.4	549.3	546.3	544.6
7.5°	545.5	545.9	545.3	541.0	538.7
10°	539.5	539.8	538.1	534.7	531.9
12.5°	531.9	531.7	529.4	527.7	523.2
15°	519.8	521.1	519.8	517.5	513.9
17.5°	508.1	508.1	509.0	505.0	502.2
20°	495.0	495.6	495.6	492.4	489.3
22.5°	479.7	481.6	482.3	478.9	475.0
25°	461.7	465.3	467.4	464.0	460.0
27.5°	439.8	445.3	451.7	449.2	444.7
30°	415.4	423.5	434.1	432.0	428.8
32.5°	392.3	400.4	415.0	414.1	412.5
35°	371.3	376.4	393.6	395.7	394.2
37.5°	351.3	356.0	372.1	377.0	375.7
40°	330.3	335.4	348.2	356.9	357.3
42.5°	309.6	314.4	324.8	337.3	337.3
45°	287.5	292.4	301.9	315.7	317.4
47.5°	265.8	270.9	280.3	294.1	296.8
50°	244.6	249.3	258.6	272.0	276.2
52.5°	222.6	227.7	236.8	249.1	255.2
55°	201.3	204.7	214.7	226.6	233.2
57.5°	179.3	182.5	193.7	203.9	210.7
60°	158.1	162.1	170.8	181.2	189.0
62.5°	137.7	141.9	149.4	158.5	167.4
65°	118.0	121.1	128.4	137.5	145.3
67.5°	98.9	101.6	108.8	115.2	123.5
70°	79.6	83.2	88.5	94.6	99.9
72.5°	64.1	65.6	70.0	74.5	80.0
75°	47.3	49.9	53.5	56.0	59.2
77.5°	33.9	35.4	37.6	39.7	42.6
80°	22.7	23.3	25.2	25.7	28.0
82.5°	13.8	14.2	14.6	14.9	15.7
85°	7.4	7.4	7.4	7.0	7.0
87.5°	4.2	4.2	3.6	3.0	2.1
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)