

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: P555145

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-88-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: P555145
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-30-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

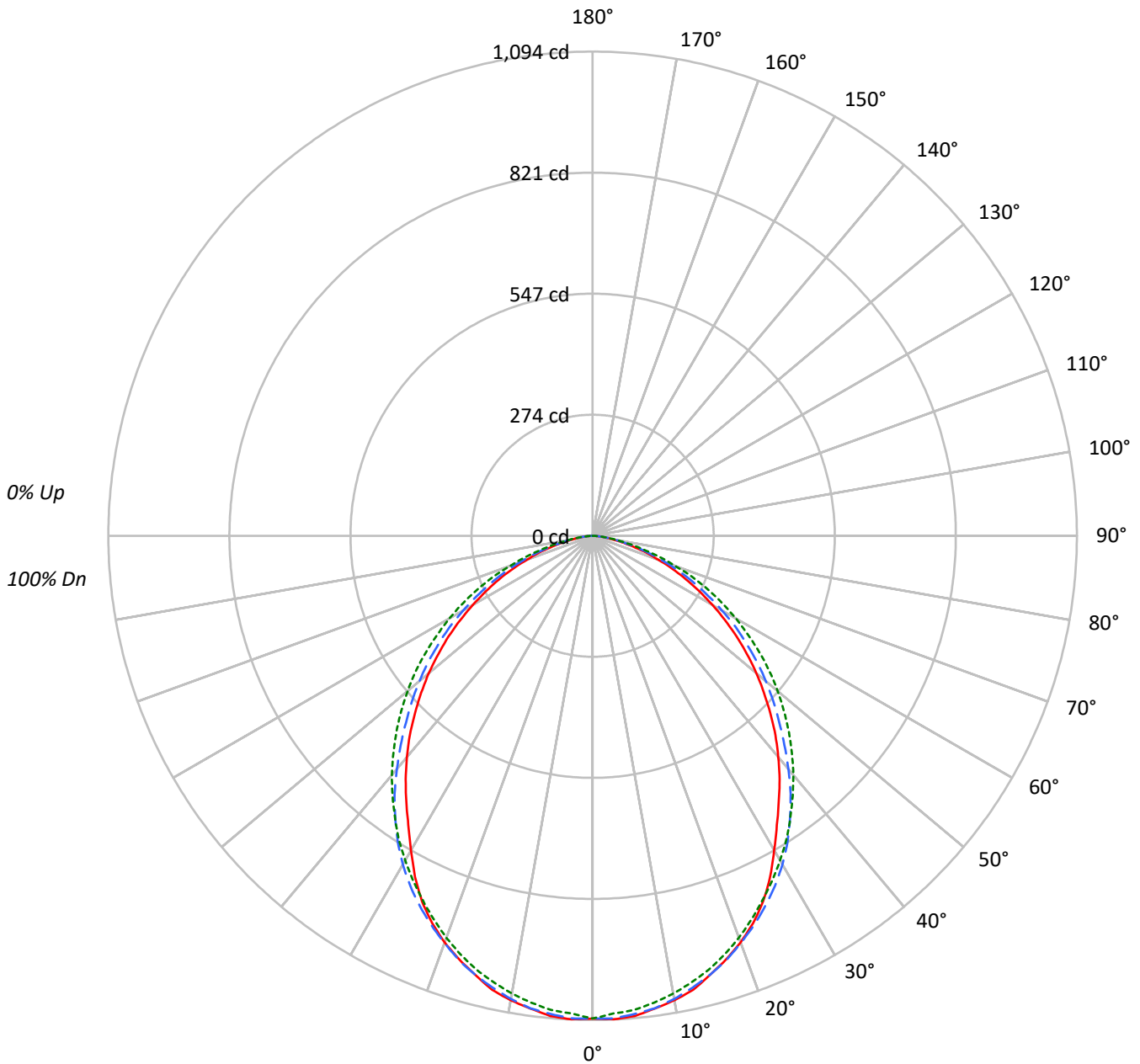
Lumens per Lamp: N/A
Luminaire Lumens: 2522.0 lumens
Efficiency: N/A
Efficacy: 75.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555145

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-81-88-EDD

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°	5870	5870	5870
5°	5886	5861	5811
10°	5823	5807	5741
15°	5720	5720	5655
20°	5599	5606	5534
25°	5415	5482	5394
30°	5098	5328	5262
35°	4818	5107	5115
40°	4584	4831	4957
45°	4322	4539	4771
50°	4045	4277	4568
55°	3731	3978	4321
60°	3360	3631	4018
65°	2967	3228	3655
70°	2472	2749	3106
75°	1942	2196	2431
80°	1389	1547	1714
85°	908	908	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.7	4.1
10°-20°	288.5	11.4
20°-30°	421.6	16.7
30°-40°	478.5	19.0
40°-50°	462.0	18.3
50°-60°	381.1	15.1
60°-70°	253.8	10.1
70°-80°	113.6	4.5
80°-90°	20.3	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°	812.8	32.2
0°-40°	1291.3	51.2
0°-60°	2134.4	84.6
0°-90°	2522.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2522.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1089	1089	1085	1079	1076	103
15°	1027	1029	1027	1022	1015	289
25°	912	919	923	916	908	418
35°	733	743	777	782	778	459
45°	568	577	596	624	627	438
55°	398	404	424	448	460	355
65°	233	239	254	272	287	231
75°	93	98	106	111	117	102
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.7	1090.7	1090.7	1090.7	1090.7
2.5°	1093.6	1094.1	1091.5	1084.8	1080.6
5°	1089.4	1089.0	1084.8	1079.0	1075.6
7.5°	1077.3	1078.1	1076.9	1068.5	1063.9
10°	1065.6	1066.0	1062.6	1055.9	1050.5
12.5°	1050.5	1050.1	1045.4	1042.1	1033.3
15°	1026.6	1029.1	1026.6	1022.0	1014.9
17.5°	1003.5	1003.5	1005.2	997.3	991.8
20°	977.6	978.8	978.8	972.5	966.3
22.5°	947.4	951.2	952.4	945.7	938.2
25°	911.8	918.9	923.1	916.4	908.4
27.5°	868.6	879.5	892.1	887.1	878.3
30°	820.4	836.4	857.3	853.1	846.8
32.5°	774.8	790.7	819.6	817.9	814.6
35°	733.3	743.3	777.3	781.5	778.5
37.5°	693.9	703.1	735.0	744.6	742.1
40°	652.4	662.5	687.6	704.8	705.6
42.5°	611.3	621.0	641.5	666.2	666.2
45°	567.8	577.4	596.3	623.5	626.8
47.5°	525.0	535.1	553.5	580.8	586.2
50°	483.1	492.3	510.8	537.2	545.6
52.5°	439.5	449.6	467.6	491.9	504.1
55°	397.6	404.4	424.0	447.5	460.5
57.5°	354.1	360.4	382.6	402.7	416.1
60°	312.2	320.1	337.3	357.8	373.3
62.5°	271.9	280.3	295.0	313.0	330.6
65°	233.0	239.3	253.5	271.5	287.0
67.5°	195.3	200.7	215.0	227.5	243.9
70°	157.1	164.3	174.7	186.9	197.4
72.5°	126.5	129.5	138.3	147.1	158.0
75°	93.4	98.5	105.6	110.6	116.9
77.5°	67.0	70.0	74.2	78.4	84.2
80°	44.8	46.1	49.9	50.7	55.3
82.5°	27.2	28.1	28.9	29.3	31.0
85°	14.7	14.7	14.7	13.8	13.8
87.5°	8.4	8.4	7.1	5.9	4.2
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)