

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: P555305

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-88-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: P555305
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

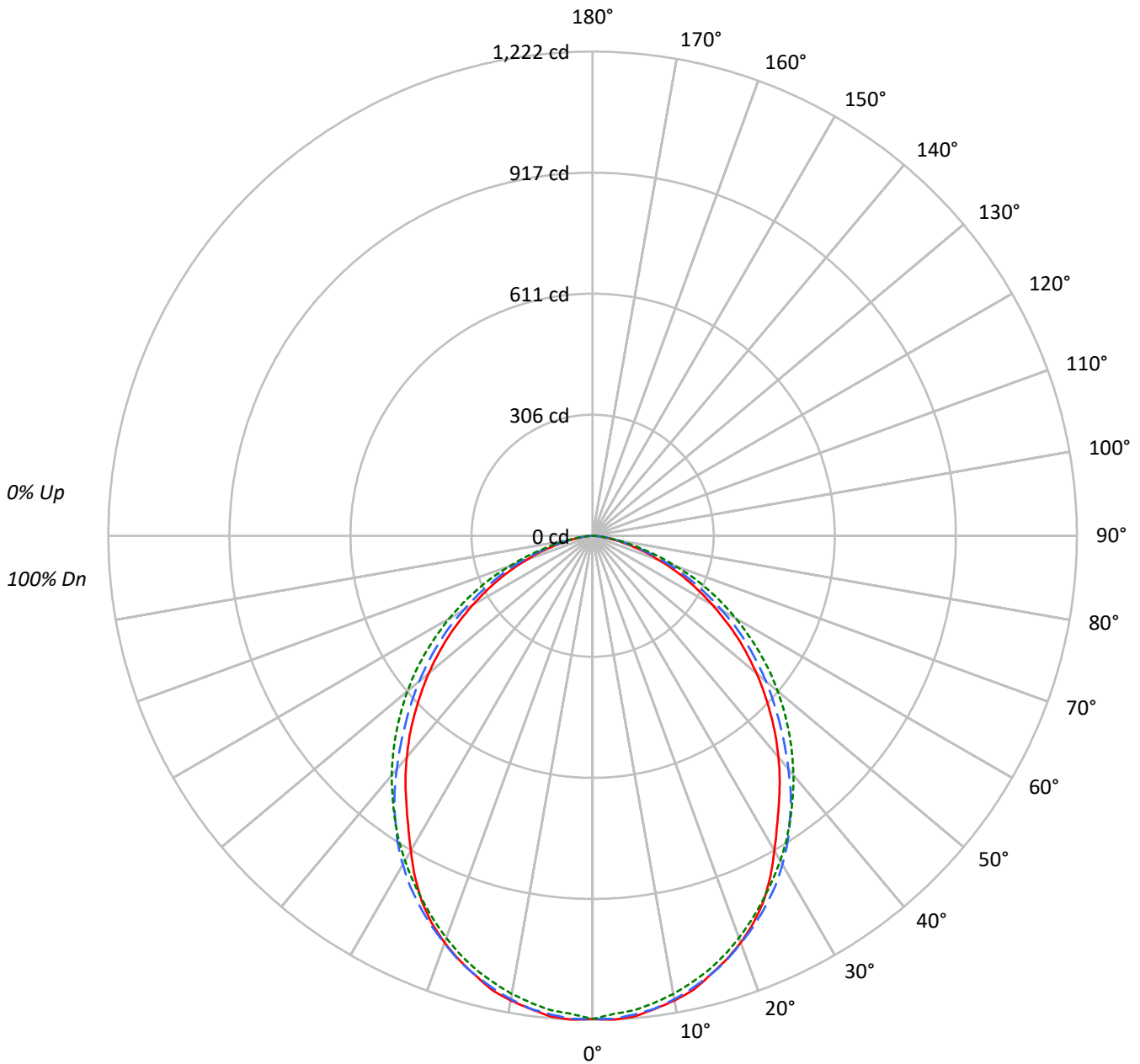
Lumens per Lamp: N/A
Luminaire Lumens: 2819.0 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6561	6561	6561
5°	6579	6551	6495
10°	6509	6491	6417
15°	6394	6394	6321
20°	6258	6266	6186
25°	6052	6127	6030
30°	5699	5955	5883
35°	5385	5708	5717
40°	5123	5400	5541
45°	4830	5073	5333
50°	4521	4780	5106
55°	4171	4448	4830
60°	3756	4058	4492
65°	3316	3609	4085
70°	2763	3073	3471
75°	2171	2454	2718
80°	1553	1726	1915
85°	1013	1013	957



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.8	4.1
10°-20°	322.5	11.4
20°-30°	471.2	16.7
30°-40°	534.9	19.0
40°-50°	516.4	18.3
50°-60°	426.0	15.1
60°-70°	283.7	10.1
70°-80°	126.9	4.5
80°-90°	22.7	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°	908.5	32.2
0°-40°	1443.4	51.2
0°-60°	2385.7	84.6
0°-90°	2819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2819.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1219	1219	1219	1219	1219	
5°	1218	1217	1213	1206	1202	115
15°	1148	1150	1148	1142	1134	323
25°	1019	1027	1032	1024	1015	467
35°	820	831	869	874	870	514
45°	635	645	666	697	701	490
55°	444	452	474	500	515	397
65°	260	267	283	304	321	258
75°	104	110	118	124	131	114
85°	16	16	16	16	16	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.1	1219.1	1219.1	1219.1	1219.1
2.5°	1222.4	1222.9	1220.1	1212.6	1207.9
5°	1217.7	1217.3	1212.6	1206.0	1202.3
7.5°	1204.2	1205.1	1203.7	1194.3	1189.2
10°	1191.0	1191.5	1187.8	1180.3	1174.2
12.5°	1174.2	1173.7	1168.6	1164.8	1155.0
15°	1147.5	1150.3	1147.5	1142.3	1134.4
17.5°	1121.7	1121.7	1123.6	1114.7	1108.6
20°	1092.7	1094.1	1094.1	1087.1	1080.0
22.5°	1059.0	1063.2	1064.6	1057.1	1048.7
25°	1019.2	1027.1	1031.8	1024.3	1015.4
27.5°	970.9	983.1	997.1	991.5	981.7
30°	917.1	934.8	958.3	953.6	946.6
32.5°	866.0	883.8	916.1	914.2	910.5
35°	819.6	830.9	868.8	873.5	870.2
37.5°	775.6	785.9	821.5	832.3	829.5
40°	729.2	740.5	768.6	787.8	788.7
42.5°	683.3	694.1	717.1	744.7	744.7
45°	634.6	645.4	666.5	696.9	700.7
47.5°	586.9	598.1	618.7	649.1	655.2
50°	540.0	550.3	570.9	600.4	609.8
52.5°	491.3	502.6	522.7	549.9	563.4
55°	444.5	452.0	474.0	500.2	514.7
57.5°	395.8	402.8	427.6	450.1	465.1
60°	348.9	357.8	377.0	400.0	417.3
62.5°	304.0	313.3	329.7	349.9	369.5
65°	260.4	267.4	283.4	303.5	320.8
67.5°	218.3	224.3	240.3	254.3	272.6
70°	175.6	183.6	195.3	208.9	220.6
72.5°	141.4	144.7	154.6	164.4	176.6
75°	104.4	110.1	118.0	123.6	130.7
77.5°	74.9	78.2	82.9	87.6	94.1
80°	50.1	51.5	55.7	56.7	61.8
82.5°	30.4	31.4	32.3	32.8	34.7
85°	16.4	16.4	16.4	15.5	15.5
87.5°	9.4	9.4	8.0	6.6	4.7
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)