

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: P555179

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-93-94-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: P555179
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-93-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

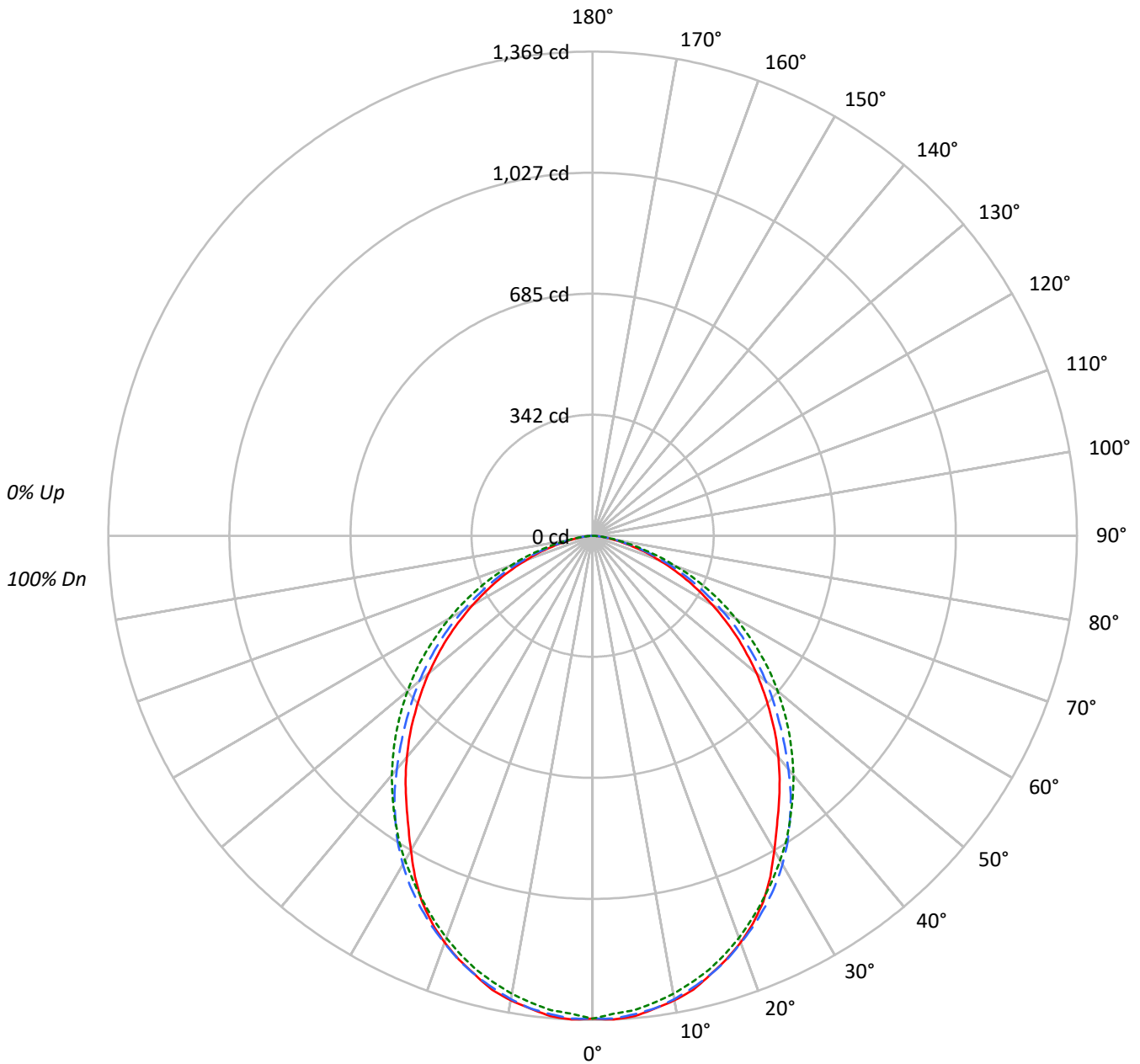
Lumens per Lamp: N/A
Luminaire Lumens: 3157.0 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7348	7348	7348
5°	7367	7337	7274
10°	7289	7270	7186
15°	7160	7160	7078
20°	7009	7018	6927
25°	6778	6862	6753
30°	6382	6669	6588
35°	6031	6393	6403
40°	5738	6047	6206
45°	5409	5681	5973
50°	5064	5354	5718
55°	4671	4981	5408
60°	4207	4545	5030
65°	3713	4041	4576
70°	3095	3441	3887
75°	2433	2749	3042
80°	1739	1934	2145
85°	1136	1136	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.5	4.1
10°-20°	361.1	11.4
20°-30°	527.7	16.7
30°-40°	599.0	19.0
40°-50°	578.3	18.3
50°-60°	477.0	15.1
60°-70°	317.7	10.1
70°-80°	142.2	4.5
80°-90°	25.4	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°	1017.4	32.2
0°-40°	1616.4	51.2
0°-60°	2671.8	84.6
0°-90°	3157.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3157.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1365	1365	1365	1365	1365	
5°	1364	1363	1358	1351	1346	129
15°	1285	1288	1285	1279	1270	362
25°	1141	1150	1156	1147	1137	523
35°	918	930	973	978	975	575
45°	711	723	746	780	785	548
55°	498	506	531	560	576	444
65°	292	300	317	340	359	289
75°	117	123	132	138	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1365.3	1365.3	1365.3	1365.3	1365.3
2.5°	1369.0	1369.5	1366.4	1358.0	1352.7
5°	1363.7	1363.2	1358.0	1350.6	1346.4
7.5°	1348.5	1349.6	1348.0	1337.5	1331.8
10°	1333.8	1334.4	1330.2	1321.8	1315.0
12.5°	1315.0	1314.4	1308.7	1304.5	1293.5
15°	1285.1	1288.2	1285.1	1279.3	1270.4
17.5°	1256.2	1256.2	1258.3	1248.4	1241.5
20°	1223.7	1225.3	1225.3	1217.4	1209.5
22.5°	1185.9	1190.7	1192.2	1183.8	1174.4
25°	1141.4	1150.3	1155.5	1147.1	1137.2
27.5°	1087.3	1101.0	1116.7	1110.4	1099.4
30°	1027.0	1046.9	1073.2	1067.9	1060.1
32.5°	969.8	989.8	1026.0	1023.9	1019.7
35°	917.9	930.5	973.0	978.2	974.6
37.5°	868.6	880.1	920.0	932.1	928.9
40°	816.7	829.3	860.7	882.2	883.3
42.5°	765.3	777.3	803.0	834.0	834.0
45°	710.7	722.8	746.4	780.5	784.7
47.5°	657.2	669.8	692.9	727.0	733.8
50°	604.8	616.3	639.4	672.4	682.9
52.5°	550.2	562.8	585.4	615.8	631.0
55°	497.8	506.2	530.8	560.2	576.4
57.5°	443.2	451.1	478.9	504.1	520.8
60°	390.8	400.7	422.2	447.9	467.3
62.5°	340.4	350.9	369.3	391.8	413.8
65°	291.6	299.5	317.3	339.9	359.3
67.5°	244.4	251.2	269.1	284.8	305.3
70°	196.7	205.6	218.7	233.9	247.0
72.5°	158.4	162.1	173.1	184.1	197.7
75°	117.0	123.3	132.2	138.5	146.3
77.5°	83.9	87.6	92.8	98.1	105.4
80°	56.1	57.7	62.4	63.5	69.2
82.5°	34.1	35.1	36.2	36.7	38.8
85°	18.4	18.4	18.4	17.3	17.3
87.5°	10.5	10.5	8.9	7.3	5.2
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)