

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: P556731

Luminaire Tested: **FUSL-12-4-LD4-1STD-35-UNV-80-94-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: P556731
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-12-4-LD4-1STD-35-UNV-80-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

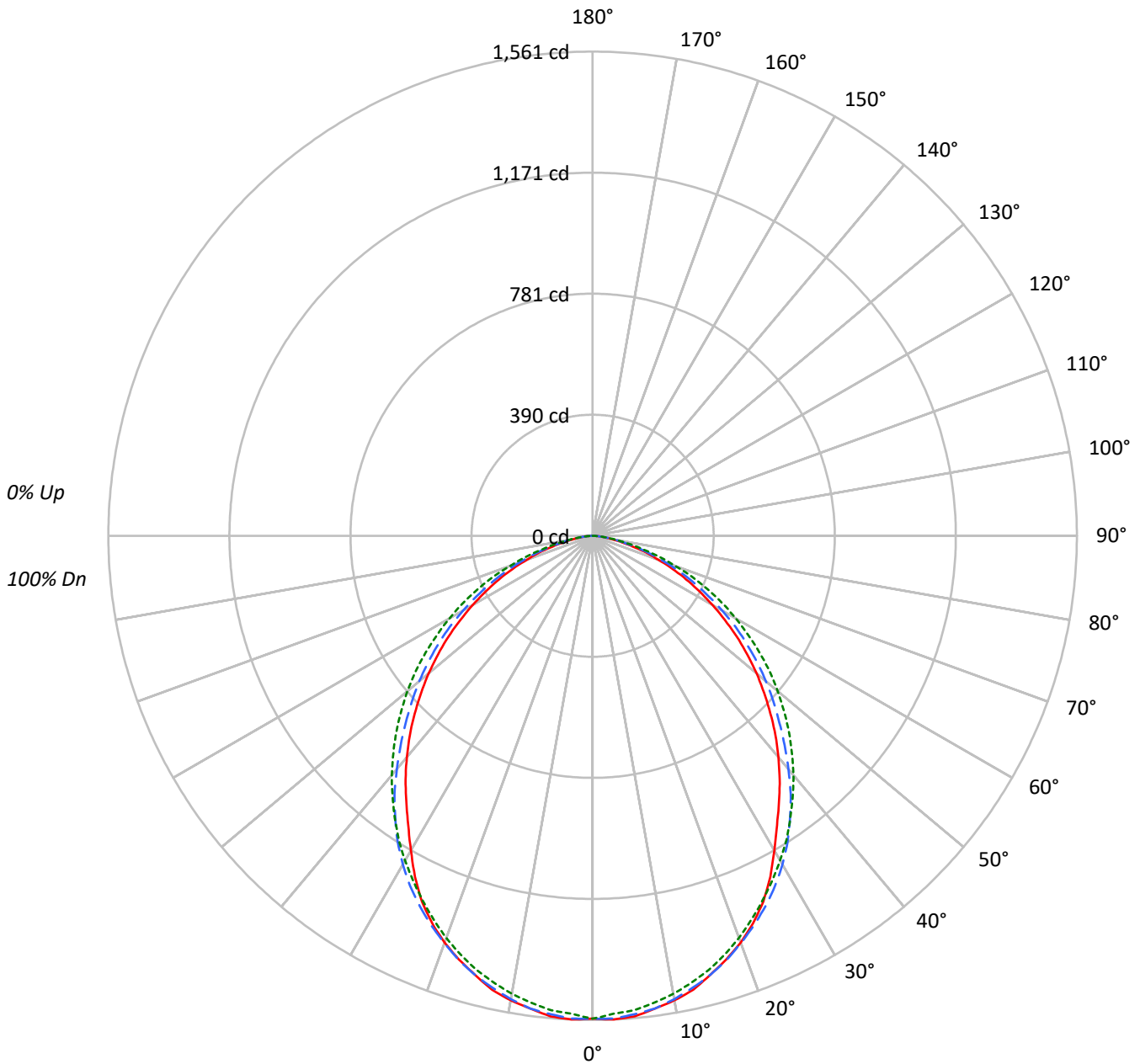
Lumens per Lamp: N/A
Luminaire Lumens: 3600.0 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	4190	4190	4190
5°	4201	4183	4148
10°	4156	4145	4097
15°	4082	4082	4036
20°	3996	4001	3950
25°	3864	3912	3850
30°	3639	3803	3756
35°	3438	3645	3651
40°	3271	3448	3538
45°	3084	3239	3405
50°	2887	3052	3260
55°	2663	2840	3084
60°	2398	2591	2868
65°	2118	2304	2609
70°	1765	1962	2216
75°	1387	1567	1735
80°	992	1103	1224
85°	645	645	608



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	4.1
10°-20°	411.8	11.4
20°-30°	601.8	16.7
30°-40°	683.1	19.0
40°-50°	659.4	18.3
50°-60°	544.0	15.1
60°-70°	362.2	10.1
70°-80°	162.1	4.5
80°-90°	29.0	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°	1160.2	32.2
0°-40°	1843.3	51.2
0°-60°	3046.7	84.6
0°-90°	3600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3600.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1557	1557	1557	1557	1557	
5°	1555	1554	1548	1540	1535	147
15°	1465	1469	1465	1459	1449	413
25°	1302	1312	1318	1308	1297	596
35°	1047	1061	1110	1116	1111	656
45°	810	824	851	890	895	625
55°	568	577	605	639	657	507
65°	333	342	362	388	410	330
75°	133	141	151	158	167	146
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1556.9	1556.9	1556.9	1556.9	1556.9
2.5°	1561.1	1561.7	1558.1	1548.5	1542.6
5°	1555.1	1554.5	1548.5	1540.2	1535.4
7.5°	1537.8	1539.0	1537.2	1525.2	1518.6
10°	1521.0	1521.6	1516.8	1507.3	1499.5
12.5°	1499.5	1498.9	1492.3	1487.5	1475.0
15°	1465.4	1469.0	1465.4	1458.8	1448.6
17.5°	1432.5	1432.5	1434.9	1423.5	1415.8
20°	1395.4	1397.2	1397.2	1388.2	1379.3
22.5°	1352.3	1357.7	1359.5	1350.0	1339.2
25°	1301.5	1311.7	1317.7	1308.1	1296.7
27.5°	1239.9	1255.5	1273.4	1266.2	1253.7
30°	1171.1	1193.8	1223.8	1217.8	1208.8
32.5°	1105.9	1128.7	1169.9	1167.5	1162.7
35°	1046.7	1061.1	1109.5	1115.5	1111.3
37.5°	990.5	1003.6	1049.1	1062.9	1059.3
40°	931.3	945.6	981.5	1006.0	1007.2
42.5°	872.7	886.4	915.7	951.0	951.0
45°	810.5	824.2	851.1	890.0	894.8
47.5°	749.4	763.8	790.1	829.0	836.8
50°	689.6	702.8	729.1	766.8	778.8
52.5°	627.4	641.8	667.5	702.2	719.5
55°	567.6	577.2	605.3	638.8	657.3
57.5°	505.4	514.4	546.1	574.8	593.9
60°	445.6	457.0	481.5	510.8	532.9
62.5°	388.2	400.1	421.1	446.8	471.9
65°	332.6	341.5	361.9	387.6	409.7
67.5°	278.7	286.5	306.8	324.8	348.1
70°	224.3	234.5	249.4	266.8	281.7
72.5°	180.6	184.8	197.4	209.9	225.5
75°	133.4	140.6	150.7	157.9	166.9
77.5°	95.7	99.9	105.9	111.8	120.2
80°	64.0	65.8	71.2	72.4	79.0
82.5°	38.9	40.1	41.3	41.9	44.3
85°	20.9	20.9	20.9	19.7	19.7
87.5°	12.0	12.0	10.2	8.4	6.0
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)