

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: P555633

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-80-84-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: P555633
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-LD4-3LO-30-UNV-80-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

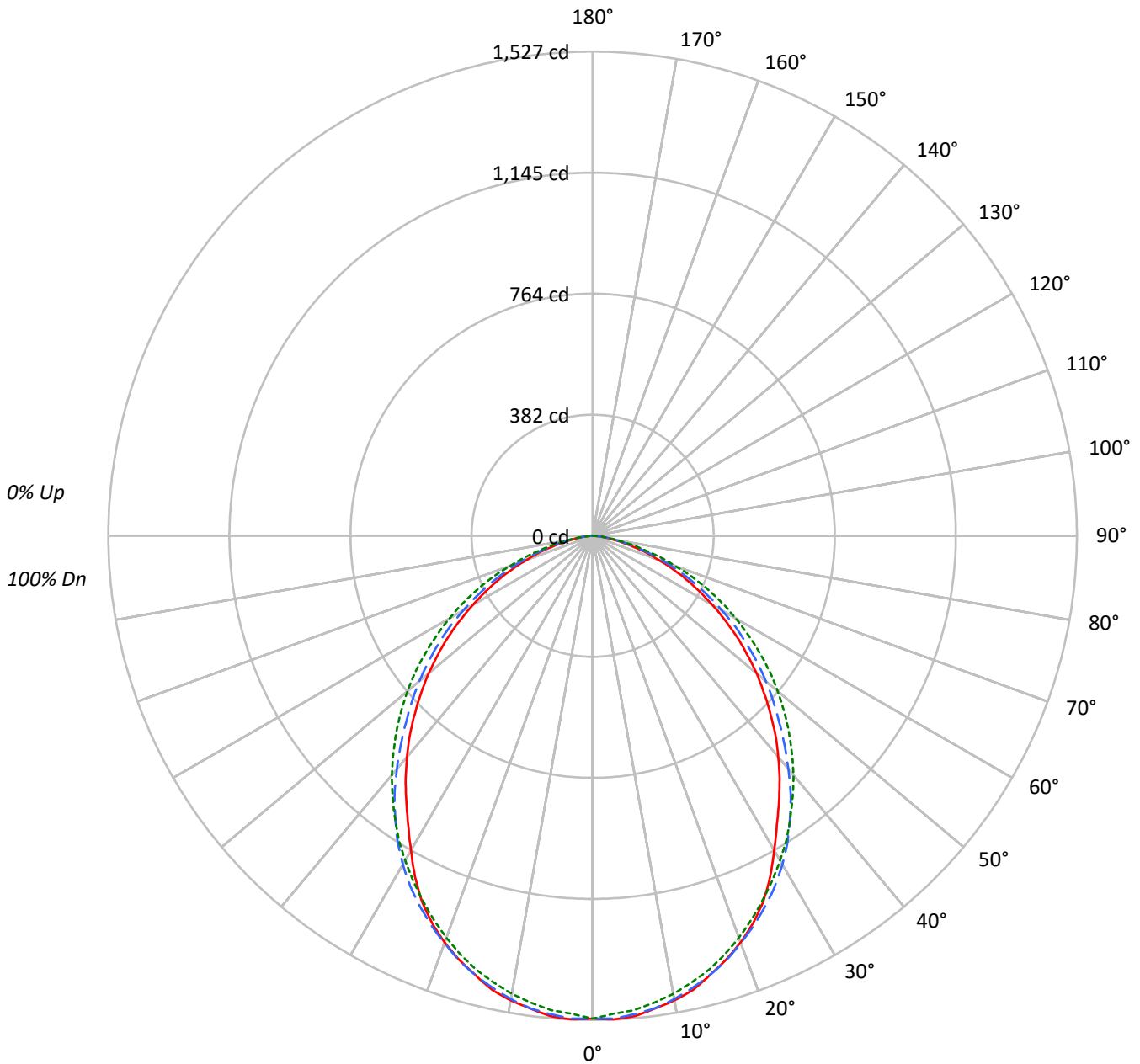
Lumens per Lamp: N/A
Luminaire Lumens: 3521.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8195	8195	8195
5°	8217	8183	8113
10°	8130	8107	8015
15°	7986	7986	7895
20°	7817	7826	7726
25°	7559	7653	7532
30°	7118	7438	7347
35°	6726	7130	7141
40°	6399	6745	6921
45°	6033	6336	6661
50°	5647	5971	6378
55°	5210	5555	6032
60°	4691	5069	5610
65°	4143	4507	5103
70°	3452	3838	4335
75°	2714	3065	3394
80°	1940	2157	2393
85°	1266	1266	1192



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.4	4.1
10°-20°	402.8	11.4
20°-30°	588.6	16.7
30°-40°	668.1	19.0
40°-50°	644.9	18.3
50°-60°	532.0	15.1
60°-70°	354.3	10.1
70°-80°	158.5	4.5
80°-90°	28.4	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°	1134.7	32.2
0°-40°	1802.8	51.2
0°-60°	2979.8	84.6
0°-90°	3521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3521.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1523	1523	1523	1523	1523	
5°	1521	1520	1515	1506	1502	144
15°	1433	1437	1433	1427	1417	404
25°	1273	1283	1289	1279	1268	583
35°	1024	1038	1085	1091	1087	641
45°	793	806	832	870	875	612
55°	555	564	592	625	643	496
65°	325	334	354	379	401	323
75°	130	138	147	154	163	143
85°	20	20	20	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1522.7	1522.7	1522.7	1522.7	1522.7
2.5°	1526.8	1527.4	1523.9	1514.6	1508.7
5°	1521.0	1520.4	1514.6	1506.4	1501.7
7.5°	1504.0	1505.2	1503.4	1491.7	1485.3
10°	1487.6	1488.2	1483.5	1474.2	1466.6
12.5°	1466.6	1466.0	1459.6	1454.9	1442.6
15°	1433.2	1436.7	1433.2	1426.8	1416.9
17.5°	1401.1	1401.1	1403.4	1392.3	1384.7
20°	1364.8	1366.5	1366.5	1357.8	1349.0
22.5°	1322.7	1327.9	1329.7	1320.3	1309.8
25°	1272.9	1282.9	1288.7	1279.4	1268.3
27.5°	1212.7	1227.9	1245.5	1238.4	1226.1
30°	1145.4	1167.6	1196.9	1191.0	1182.3
32.5°	1081.7	1103.9	1144.2	1141.9	1137.2
35°	1023.7	1037.8	1085.2	1091.0	1086.9
37.5°	968.8	981.6	1026.1	1039.5	1036.0
40°	910.8	924.9	960.0	984.0	985.1
42.5°	853.5	867.0	895.6	930.1	930.1
45°	792.7	806.1	832.4	870.5	875.2
47.5°	733.0	747.0	772.8	810.8	818.4
50°	674.5	687.4	713.1	750.0	761.7
52.5°	613.7	627.7	652.9	686.8	703.7
55°	555.2	564.5	592.0	624.8	642.9
57.5°	494.3	503.1	534.1	562.2	580.9
60°	435.8	446.9	470.9	499.6	521.2
62.5°	379.7	391.4	411.8	437.0	461.6
65°	325.3	334.0	353.9	379.1	400.7
67.5°	272.6	280.2	300.1	317.7	340.5
70°	219.4	229.3	243.9	260.9	275.5
72.5°	176.7	180.8	193.0	205.3	220.5
75°	130.5	137.5	147.4	154.4	163.2
77.5°	93.6	97.7	103.5	109.4	117.6
80°	62.6	64.3	69.6	70.8	77.2
82.5°	38.0	39.2	40.4	40.9	43.3
85°	20.5	20.5	20.5	19.3	19.3
87.5°	11.7	11.7	9.9	8.2	5.8
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)