

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: P555910

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-81-87-EDD-90**

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: P555910
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-LD4-3STD-30-UNV-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

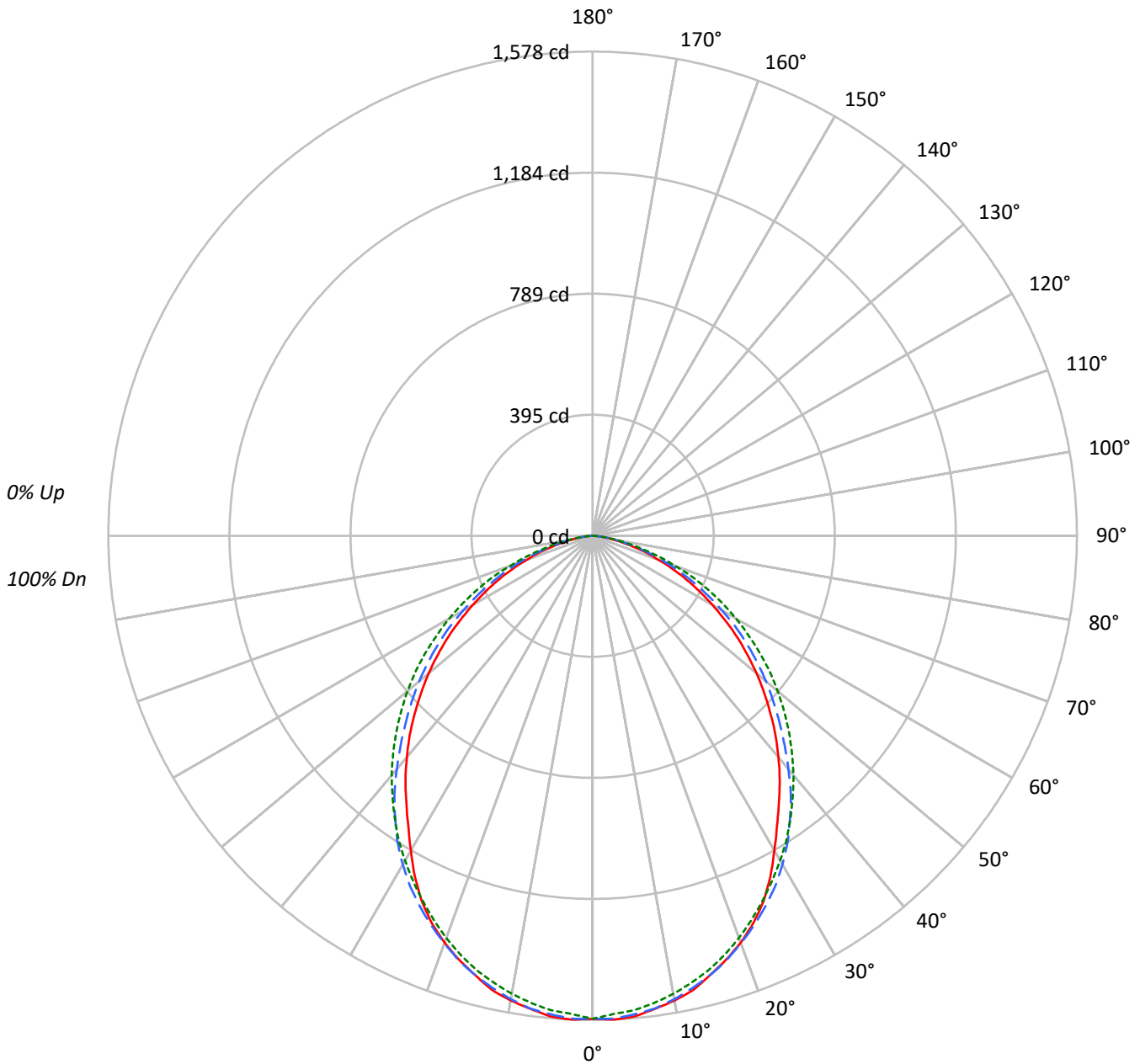
Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8472	8472	8472
5°	8495	8459	8387
10°	8405	8382	8285
15°	8256	8256	8161
20°	8081	8091	7987
25°	7815	7912	7786
30°	7359	7690	7595
35°	6953	7370	7383
40°	6615	6972	7155
45°	6237	6550	6886
50°	5838	6172	6593
55°	5385	5742	6236
60°	4850	5240	5800
65°	4281	4660	5276
70°	3569	3969	4482
75°	2805	3169	3508
80°	2005	2232	2473
85°	1309	1309	1235



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.2	4.1
10°-20°	416.4	11.4
20°-30°	608.5	16.7
30°-40°	690.7	19.0
40°-50°	666.8	18.3
50°-60°	550.0	15.1
60°-70°	366.3	10.1
70°-80°	163.9	4.5
80°-90°	29.3	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°	1173.1	32.2
0°-40°	1863.7	51.2
0°-60°	3080.5	84.6
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1574	1574	1574	1574	1574	
5°	1572	1572	1566	1557	1552	149
15°	1482	1485	1482	1475	1465	418
25°	1316	1326	1332	1323	1311	603
35°	1058	1073	1122	1128	1124	663
45°	820	833	861	900	905	632
55°	574	584	612	646	665	512
65°	336	345	366	392	414	333
75°	135	142	152	160	169	147
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1574.2	1574.2	1574.2	1574.2	1574.2
2.5°	1578.4	1579.0	1575.4	1565.7	1559.7
5°	1572.4	1571.8	1565.7	1557.3	1552.4
7.5°	1554.9	1556.1	1554.2	1542.2	1535.5
10°	1537.9	1538.5	1533.7	1524.0	1516.1
12.5°	1516.1	1515.5	1508.9	1504.1	1491.4
15°	1481.7	1485.3	1481.7	1475.0	1464.7
17.5°	1448.4	1448.4	1450.8	1439.3	1431.5
20°	1410.9	1412.7	1412.7	1403.7	1394.6
22.5°	1367.4	1372.8	1374.6	1365.0	1354.1
25°	1316.0	1326.3	1332.3	1322.6	1311.1
27.5°	1253.7	1269.4	1287.5	1280.3	1267.6
30°	1184.1	1207.1	1237.4	1231.3	1222.2
32.5°	1118.2	1141.2	1182.9	1180.5	1175.7
35°	1058.3	1072.9	1121.8	1127.9	1123.7
37.5°	1001.5	1014.8	1060.8	1074.7	1071.0
40°	941.6	956.1	992.4	1017.2	1018.4
42.5°	882.4	896.3	925.9	961.6	961.6
45°	819.5	833.4	860.6	899.9	904.7
47.5°	757.8	772.3	798.9	838.2	846.1
50°	697.3	710.6	737.2	775.3	787.4
52.5°	634.4	648.9	674.9	710.0	727.5
55°	573.9	583.6	612.0	645.9	664.6
57.5°	511.0	520.1	552.2	581.2	600.5
60°	450.6	462.0	486.8	516.5	538.8
62.5°	392.5	404.6	425.8	451.8	477.2
65°	336.2	345.3	365.9	391.9	414.3
67.5°	281.8	289.7	310.2	328.4	352.0
70°	226.8	237.1	252.2	269.7	284.8
72.5°	182.6	186.9	199.6	212.3	228.0
75°	134.9	142.1	152.4	159.7	168.7
77.5°	96.8	101.0	107.0	113.1	121.6
80°	64.7	66.5	72.0	73.2	79.8
82.5°	39.3	40.5	41.7	42.3	44.8
85°	21.2	21.2	21.2	20.0	20.0
87.5°	12.1	12.1	10.3	8.5	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)