

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: P554802

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-80-85-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: P554802
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-LD4-2HI-50-UNV-80-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

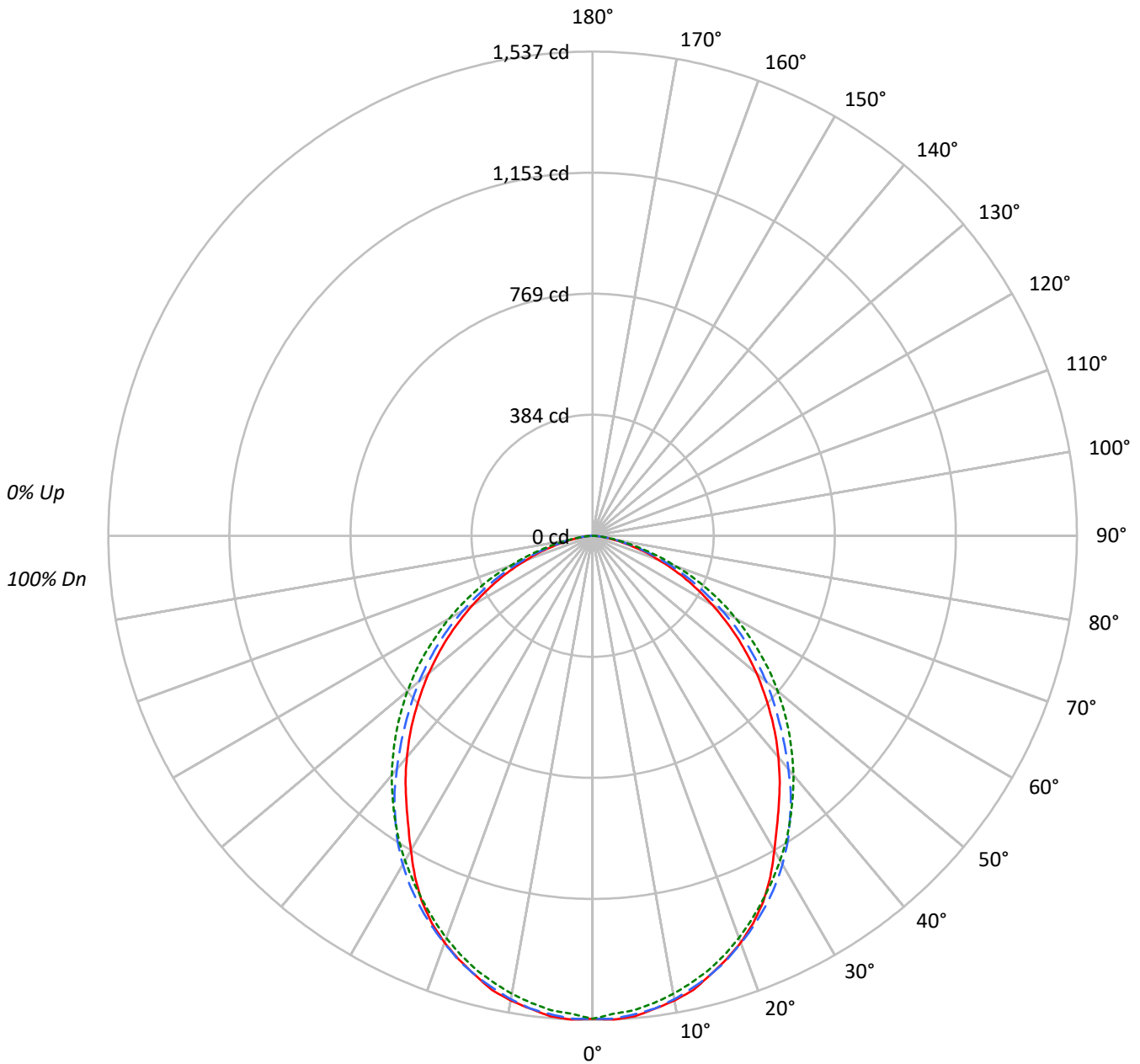
Lumens per Lamp: N/A
Luminaire Lumens: 3545.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8251	8251	8251
5°	8273	8238	8168
10°	8185	8163	8070
15°	8040	8040	7948
20°	7870	7880	7779
25°	7611	7705	7583
30°	7167	7489	7397
35°	6772	7179	7190
40°	6443	6790	6968
45°	6075	6379	6706
50°	5686	6012	6421
55°	5244	5593	6074
60°	4723	5103	5649
65°	4171	4537	5138
70°	3476	3865	4365
75°	2730	3086	3417
80°	1953	2173	2408
85°	1272	1272	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.3	4.1
10°-20°	405.5	11.4
20°-30°	592.6	16.7
30°-40°	672.7	19.0
40°-50°	649.3	18.3
50°-60°	535.7	15.1
60°-70°	356.7	10.1
70°-80°	159.6	4.5
80°-90°	28.5	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°	1142.5	32.2
0°-40°	1815.1	51.2
0°-60°	3000.1	84.6
0°-90°	3545.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3545.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1533	1533	1533	1533	1533	
5°	1531	1531	1525	1517	1512	145
15°	1443	1446	1443	1436	1426	407
25°	1282	1292	1298	1288	1277	587
35°	1031	1045	1093	1098	1094	646
45°	798	812	838	876	881	616
55°	559	568	596	629	647	499
65°	328	336	356	382	404	325
75°	131	138	148	156	164	144
85°	21	21	21	19	19	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1533.1	1533.1	1533.1	1533.1	1533.1
2.5°	1537.2	1537.8	1534.3	1524.9	1519.0
5°	1531.4	1530.8	1524.9	1516.6	1511.9
7.5°	1514.3	1515.5	1513.7	1501.9	1495.4
10°	1497.8	1498.4	1493.7	1484.2	1476.6
12.5°	1476.6	1476.0	1469.5	1464.8	1452.4
15°	1443.0	1446.5	1443.0	1436.5	1426.5
17.5°	1410.6	1410.6	1413.0	1401.8	1394.1
20°	1374.1	1375.9	1375.9	1367.0	1358.2
22.5°	1331.7	1337.0	1338.8	1329.3	1318.7
25°	1281.6	1291.6	1297.5	1288.1	1276.9
27.5°	1221.0	1236.3	1253.9	1246.9	1234.5
30°	1153.2	1175.6	1205.1	1199.2	1190.3
32.5°	1089.0	1111.4	1152.0	1149.7	1145.0
35°	1030.7	1044.9	1092.6	1098.5	1094.3
37.5°	975.4	988.3	1033.1	1046.6	1043.1
40°	917.0	931.2	966.5	990.7	991.8
42.5°	859.3	872.9	901.7	936.5	936.5
45°	798.1	811.6	838.1	876.4	881.1
47.5°	738.0	752.1	778.0	816.3	824.0
50°	679.1	692.1	718.0	755.1	766.9
52.5°	617.8	632.0	657.3	691.5	708.5
55°	558.9	568.4	596.1	629.0	647.3
57.5°	497.7	506.5	537.7	566.0	584.9
60°	438.8	450.0	474.1	503.0	524.8
62.5°	382.2	394.0	414.6	440.0	464.7
65°	327.5	336.3	356.3	381.7	403.5
67.5°	274.5	282.1	302.1	319.8	342.8
70°	220.9	230.9	245.6	262.7	277.4
72.5°	177.9	182.0	194.4	206.7	222.0
75°	131.3	138.4	148.4	155.5	164.3
77.5°	94.2	98.4	104.2	110.1	118.4
80°	63.0	64.8	70.1	71.3	77.7
82.5°	38.3	39.5	40.6	41.2	43.6
85°	20.6	20.6	20.6	19.4	19.4
87.5°	11.8	11.8	10.0	8.2	5.9
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)