

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: P554826

Luminaire Tested: **FUSL-12-2-LD4-2HI-50-UNV-81-94-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: P554826
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-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

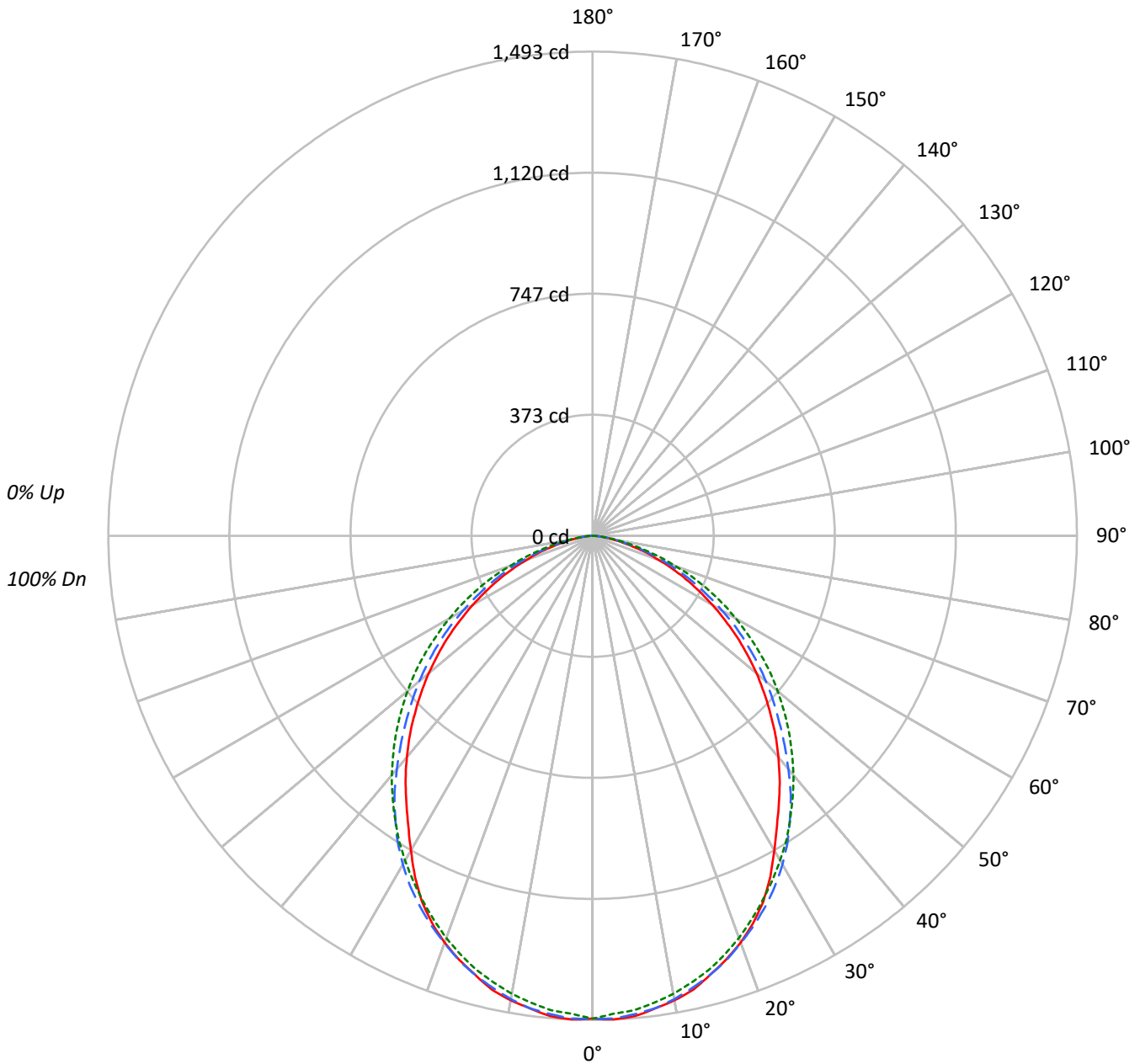
Lumens per Lamp: N/A
Luminaire Lumens: 3443.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8014	8014	8014
5°	8035	8001	7933
10°	7950	7928	7837
15°	7809	7809	7720
20°	7644	7653	7555
25°	7391	7483	7365
30°	6960	7274	7185
35°	6577	6972	6983
40°	6258	6595	6768
45°	5899	6196	6514
50°	5523	5838	6236
55°	5094	5432	5899
60°	4588	4957	5486
65°	4051	4408	4989
70°	3375	3753	4239
75°	2653	2999	3319
80°	1897	2111	2340
85°	1235	1235	1167



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.2	4.1
10°-20°	393.8	11.4
20°-30°	575.5	16.7
30°-40°	653.3	19.0
40°-50°	630.7	18.3
50°-60°	520.3	15.1
60°-70°	346.4	10.1
70°-80°	155.0	4.5
80°-90°	27.7	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°	1109.6	32.2
0°-40°	1762.9	51.2
0°-60°	2913.8	84.6
0°-90°	3443.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3443.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1489	1489	1489	1489	1489	
5°	1487	1487	1481	1473	1468	141
15°	1402	1405	1402	1395	1386	395
25°	1245	1254	1260	1251	1240	570
35°	1001	1015	1061	1067	1063	627
45°	775	788	814	851	856	598
55°	543	552	579	611	629	485
65°	318	327	346	371	392	315
75°	128	134	144	151	160	139
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.0	1489.0	1489.0	1489.0	1489.0
2.5°	1493.0	1493.6	1490.2	1481.0	1475.3
5°	1487.3	1486.7	1481.0	1473.0	1468.4
7.5°	1470.7	1471.8	1470.1	1458.7	1452.4
10°	1454.7	1455.3	1450.7	1441.5	1434.1
12.5°	1434.1	1433.5	1427.2	1422.7	1410.6
15°	1401.5	1404.9	1401.5	1395.2	1385.5
17.5°	1370.0	1370.0	1372.3	1361.4	1354.0
20°	1334.6	1336.3	1336.3	1327.7	1319.1
22.5°	1293.4	1298.5	1300.2	1291.1	1280.8
25°	1244.7	1254.5	1260.2	1251.0	1240.2
27.5°	1185.8	1200.7	1217.9	1211.0	1199.0
30°	1120.0	1141.8	1170.4	1164.7	1156.1
32.5°	1057.7	1079.4	1118.9	1116.6	1112.0
35°	1001.1	1014.8	1061.1	1066.8	1062.8
37.5°	947.3	959.9	1003.4	1016.5	1013.1
40°	890.7	904.4	938.7	962.2	963.3
42.5°	834.6	847.8	875.8	909.5	909.5
45°	775.1	788.3	814.0	851.2	855.8
47.5°	716.8	730.5	755.7	792.8	800.3
50°	659.6	672.1	697.3	733.3	744.8
52.5°	600.1	613.8	638.4	671.6	688.2
55°	542.9	552.0	578.9	610.9	628.7
57.5°	483.4	492.0	522.3	549.7	568.0
60°	426.2	437.0	460.5	488.5	509.7
62.5°	371.3	382.7	402.7	427.3	451.3
65°	318.1	326.6	346.1	370.7	391.8
67.5°	266.6	274.0	293.5	310.6	332.9
70°	214.5	224.2	238.5	255.1	269.4
72.5°	172.8	176.8	188.8	200.8	215.7
75°	127.6	134.4	144.2	151.0	159.6
77.5°	91.5	95.5	101.3	107.0	115.0
80°	61.2	62.9	68.1	69.2	75.5
82.5°	37.2	38.3	39.5	40.0	42.3
85°	20.0	20.0	20.0	18.9	18.9
87.5°	11.4	11.4	9.7	8.0	5.7
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)