

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: P554719

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-82-97-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: P554719
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-35-UNV-82-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

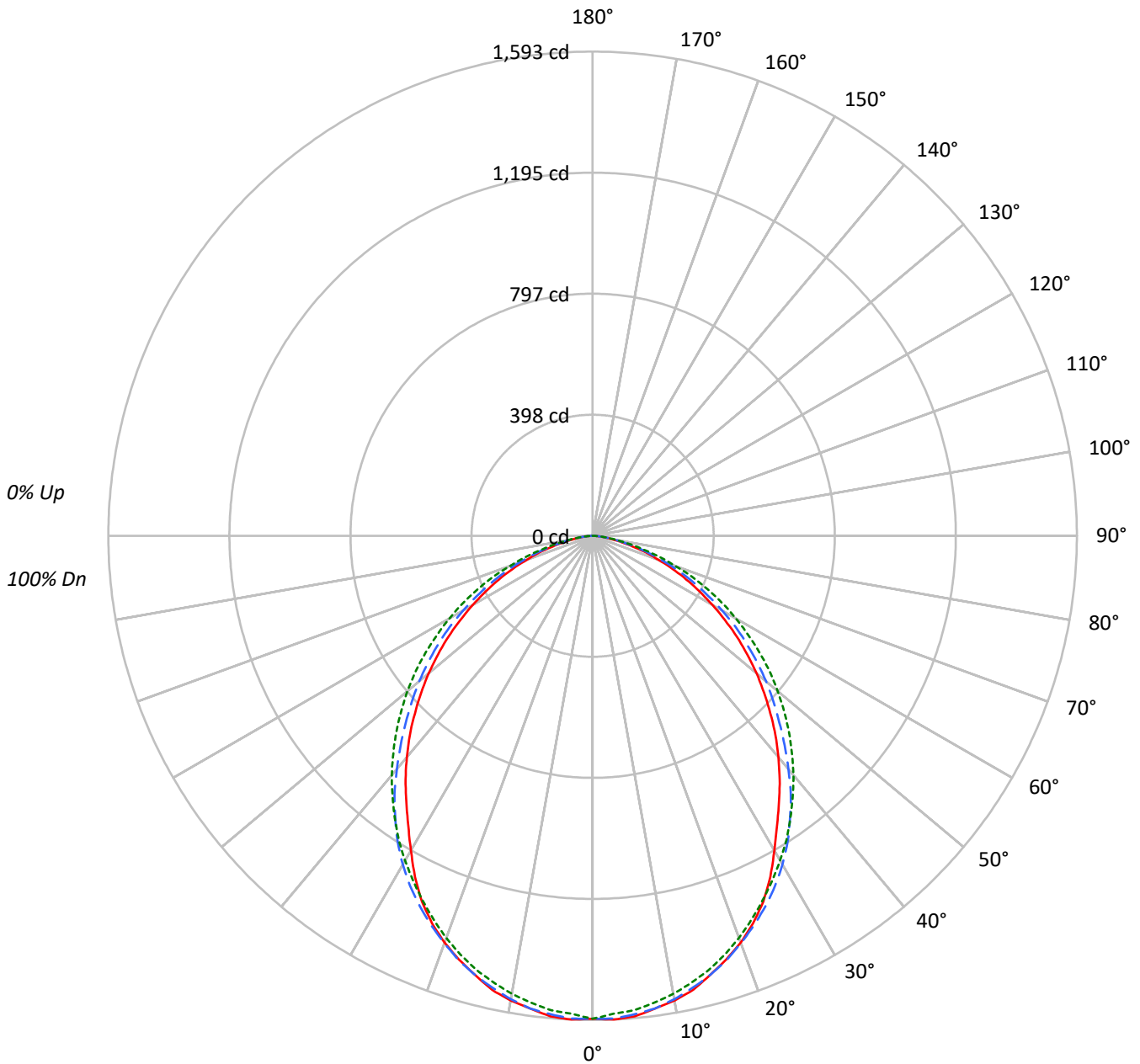
Lumens per Lamp: N/A
Luminaire Lumens: 3674.0 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	8551	8551	8551
5°	8574	8538	8465
10°	8483	8460	8363
15°	8333	8333	8237
20°	8156	8167	8062
25°	7888	7985	7859
30°	7428	7761	7666
35°	7018	7439	7452
40°	6677	7038	7222
45°	6295	6611	6951
50°	5893	6230	6655
55°	5436	5796	6294
60°	4895	5289	5854
65°	4322	4703	5324
70°	3602	4005	4524
75°	2830	3198	3541
80°	2024	2250	2498
85°	1321	1321	1241



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	4.1
10°-20°	420.3	11.4
20°-30°	614.2	16.7
30°-40°	697.1	19.0
40°-50°	673.0	18.3
50°-60°	555.2	15.1
60°-70°	369.7	10.1
70°-80°	165.4	4.5
80°-90°	29.6	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°	1184.0	32.2
0°-40°	1881.2	51.2
0°-60°	3109.3	84.6
0°-90°	3674.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3674.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1587	1586	1580	1572	1567	150
15°	1496	1499	1496	1489	1478	422
25°	1328	1339	1345	1335	1323	608
35°	1068	1083	1132	1138	1134	669
45°	827	841	869	908	913	638
55°	579	589	618	652	671	517
65°	339	348	369	396	418	337
75°	136	143	154	161	170	149
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°	1588.9	1588.9	1588.9	1588.9	1588.9
2.5°	1593.2	1593.8	1590.1	1580.4	1574.3
5°	1587.1	1586.5	1580.4	1571.8	1566.9
7.5°	1569.4	1570.6	1568.8	1556.6	1549.8
10°	1552.3	1552.9	1548.0	1538.2	1530.3
12.5°	1530.3	1529.7	1523.0	1518.1	1505.3
15°	1495.5	1499.2	1495.5	1488.8	1478.4
17.5°	1461.9	1461.9	1464.4	1452.8	1444.9
20°	1424.1	1425.9	1425.9	1416.8	1407.6
22.5°	1380.1	1385.6	1387.5	1377.7	1366.7
25°	1328.3	1338.6	1344.7	1335.0	1323.4
27.5°	1265.4	1281.3	1299.6	1292.2	1279.4
30°	1195.2	1218.4	1248.9	1242.8	1233.6
32.5°	1128.7	1151.9	1194.0	1191.5	1186.6
35°	1068.2	1082.9	1132.3	1138.4	1134.2
37.5°	1010.8	1024.3	1070.7	1084.7	1081.0
40°	950.4	965.1	1001.7	1026.7	1027.9
42.5°	890.6	904.6	934.5	970.6	970.6
45°	827.1	841.2	868.6	908.3	913.2
47.5°	764.8	779.5	806.4	846.0	854.0
50°	703.8	717.2	744.1	782.6	794.8
52.5°	640.3	655.0	681.2	716.6	734.3
55°	579.3	589.1	617.7	651.9	670.8
57.5°	515.8	525.0	557.3	586.6	606.1
60°	454.8	466.4	491.4	521.3	543.9
62.5°	396.2	408.4	429.7	456.0	481.6
65°	339.4	348.5	369.3	395.5	418.1
67.5°	284.5	292.4	313.1	331.5	355.3
70°	228.9	239.3	254.5	272.2	287.5
72.5°	184.3	188.6	201.4	214.3	230.1
75°	136.1	143.4	153.8	161.1	170.3
77.5°	97.7	101.9	108.0	114.1	122.7
80°	65.3	67.1	72.6	73.9	80.6
82.5°	39.7	40.9	42.1	42.7	45.2
85°	21.4	21.4	21.4	20.1	20.1
87.5°	12.2	12.2	10.4	8.5	6.1
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)