

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: P554696

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-88-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: P554696
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-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

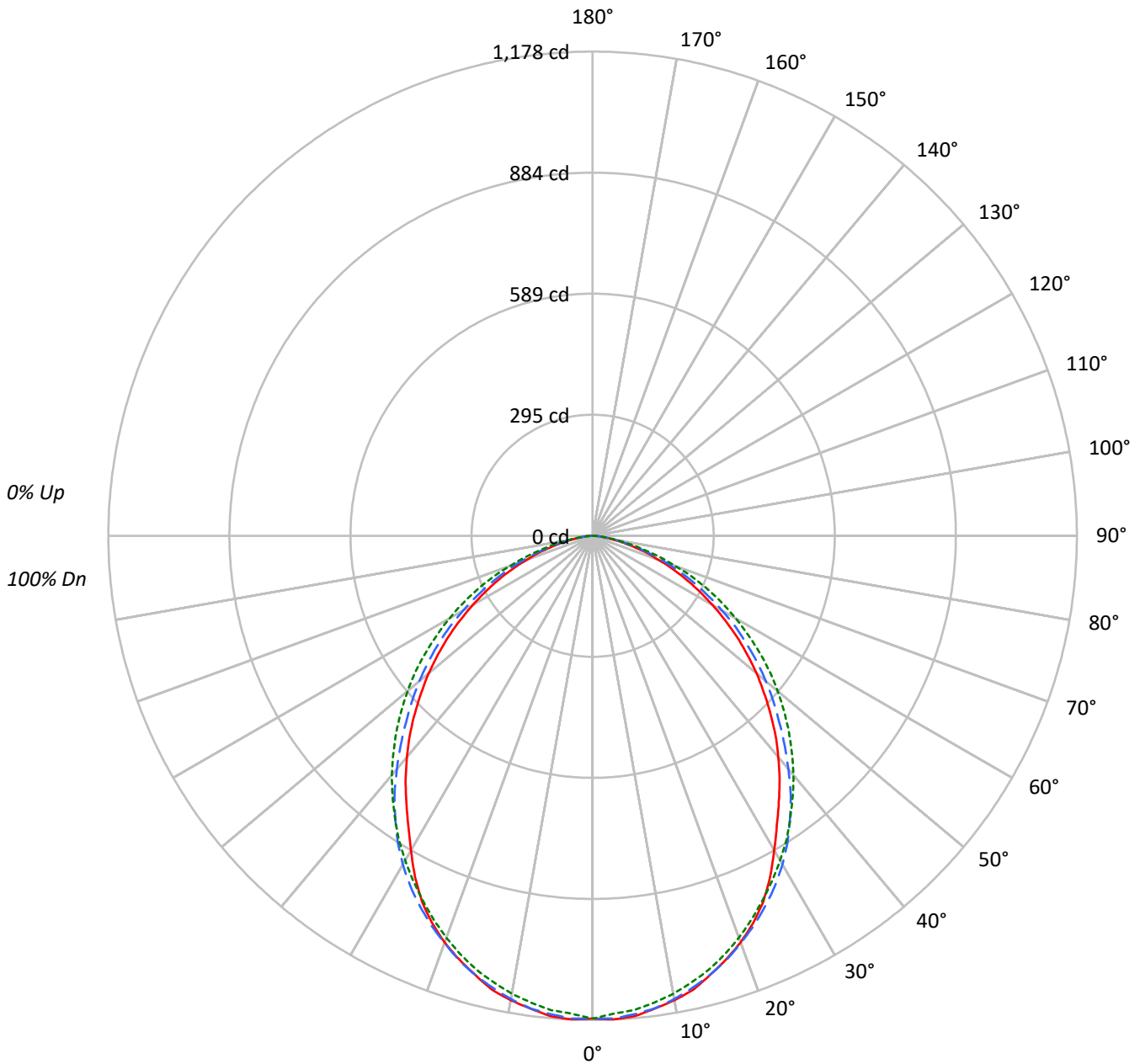
Lumens per Lamp: N/A
Luminaire Lumens: 2716.0 lumens
Efficiency: N/A
Efficacy: 62.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6322	6322	6322
5°	6338	6312	6258
10°	6271	6254	6183
15°	6160	6160	6089
20°	6030	6037	5960
25°	5831	5903	5809
30°	5491	5738	5668
35°	5188	5500	5508
40°	4936	5202	5339
45°	4654	4887	5138
50°	4356	4606	4919
55°	4018	4285	4653
60°	3619	3911	4328
65°	3195	3477	3936
70°	2662	2961	3344
75°	2092	2364	2618
80°	1497	1664	1847
85°	976	976	920



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	4.1
10°-20°	310.7	11.4
20°-30°	454.0	16.7
30°-40°	515.4	19.0
40°-50°	497.5	18.3
50°-60°	410.4	15.1
60°-70°	273.3	10.1
70°-80°	122.3	4.5
80°-90°	21.9	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°	875.3	32.2
0°-40°	1390.6	51.2
0°-60°	2298.5	84.6
0°-90°	2716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1173	1173	1168	1162	1158	111
15°	1106	1108	1106	1101	1093	312
25°	982	990	994	987	978	450
35°	790	800	837	842	838	495
45°	611	622	642	672	675	472
55°	428	436	457	482	496	382
65°	251	258	273	292	309	249
75°	101	106	114	119	126	110
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.6	1174.6	1174.6	1174.6	1174.6
2.5°	1177.8	1178.2	1175.5	1168.3	1163.8
5°	1173.2	1172.8	1168.3	1162.0	1158.4
7.5°	1160.2	1161.1	1159.7	1150.7	1145.7
10°	1147.5	1148.0	1144.4	1137.1	1131.3
12.5°	1131.3	1130.8	1125.9	1122.3	1112.8
15°	1105.6	1108.3	1105.6	1100.6	1092.9
17.5°	1080.7	1080.7	1082.5	1074.0	1068.1
20°	1052.8	1054.1	1054.1	1047.3	1040.6
22.5°	1020.3	1024.3	1025.7	1018.5	1010.3
25°	981.9	989.6	994.1	986.9	978.3
27.5°	935.4	947.2	960.7	955.3	945.8
30°	883.5	900.7	923.3	918.7	912.0
32.5°	834.4	851.5	882.6	880.8	877.2
35°	789.7	800.5	837.1	841.6	838.4
37.5°	747.3	757.2	791.5	801.9	799.2
40°	702.6	713.4	740.5	759.0	759.9
42.5°	658.4	668.8	690.9	717.5	717.5
45°	611.4	621.8	642.1	671.5	675.1
47.5°	565.4	576.2	596.1	625.4	631.3
50°	520.3	530.2	550.1	578.5	587.5
52.5°	473.4	484.2	503.6	529.8	542.9
55°	428.2	435.5	456.7	481.9	495.9
57.5°	381.3	388.1	412.0	433.6	448.1
60°	336.2	344.8	363.3	385.4	402.1
62.5°	292.9	301.9	317.7	337.1	356.0
65°	250.9	257.7	273.0	292.4	309.1
67.5°	210.3	216.1	231.5	245.0	262.6
70°	169.2	176.9	188.2	201.3	212.5
72.5°	136.3	139.4	148.9	158.4	170.1
75°	100.6	106.0	113.7	119.1	125.9
77.5°	72.2	75.4	79.9	84.4	90.7
80°	48.3	49.6	53.7	54.6	59.6
82.5°	29.3	30.2	31.1	31.6	33.4
85°	15.8	15.8	15.8	14.9	14.9
87.5°	9.0	9.0	7.7	6.3	4.5
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)