

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: P555208

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555208
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-LD4-2STD-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

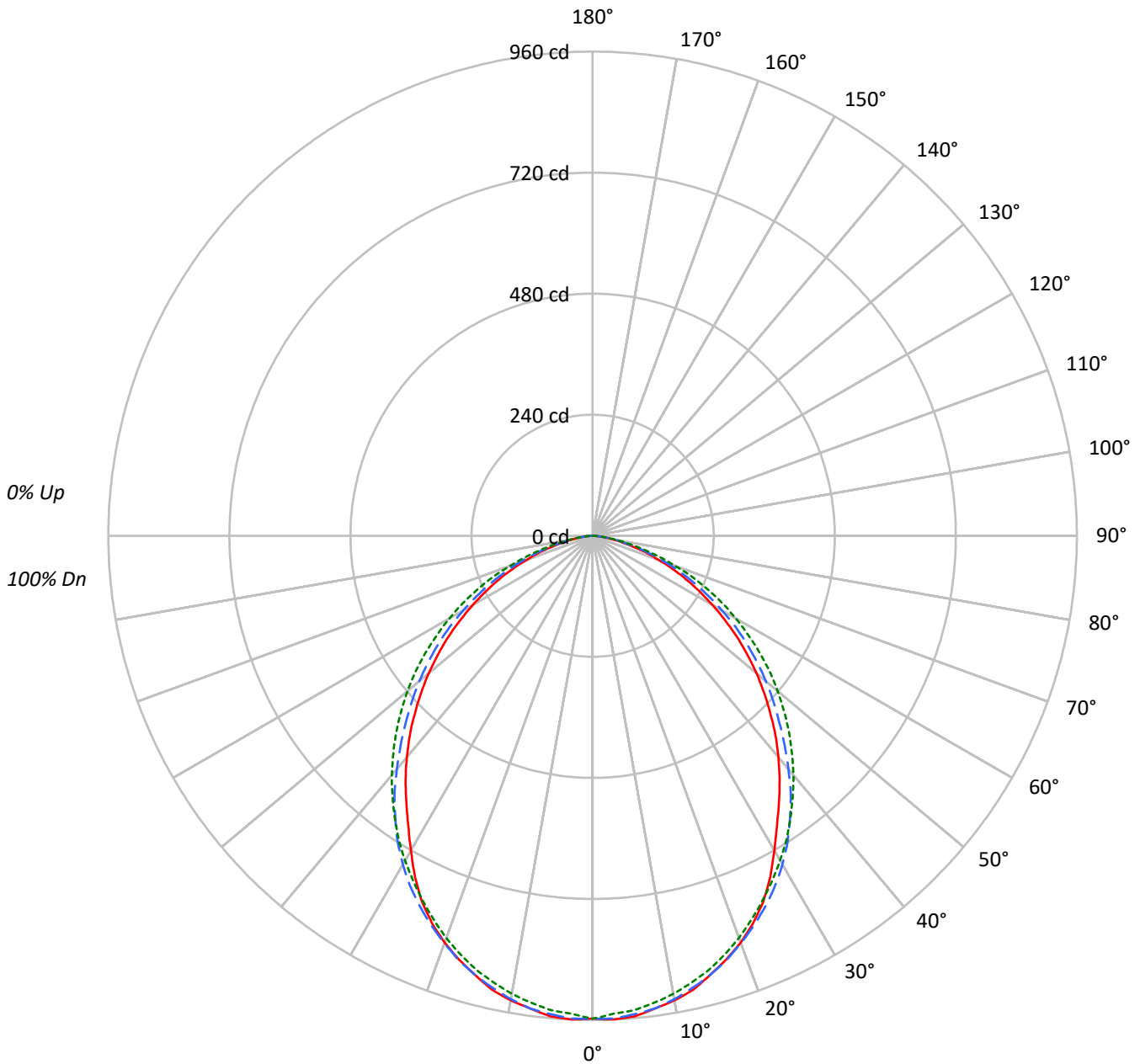
Lumens per Lamp: N/A
Luminaire Lumens: 2214.0 lumens
Efficiency: N/A
Efficacy: 66.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5153	5153	5153
5°	5167	5145	5102
10°	5112	5098	5040
15°	5021	5021	4964
20°	4915	4922	4858
25°	4753	4812	4736
30°	4476	4677	4620
35°	4229	4483	4491
40°	4024	4241	4352
45°	3793	3984	4188
50°	3551	3754	4010
55°	3276	3493	3794
60°	2949	3187	3527
65°	2604	2833	3209
70°	2170	2414	2727
75°	1705	1928	2133
80°	1221	1358	1506
85°	797	797	747



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	4.1
10°-20°	253.3	11.4
20°-30°	370.1	16.7
30°-40°	420.1	19.0
40°-50°	405.5	18.3
50°-60°	334.5	15.1
60°-70°	222.8	10.1
70°-80°	99.7	4.5
80°-90°	17.8	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°	713.5	32.2
0°-40°	1133.6	51.2
0°-60°	1873.7	84.6
0°-90°	2214.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2214.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	958	958	958	958	958	
5°	956	956	952	947	944	91
15°	901	903	901	897	891	254
25°	800	807	810	804	798	367
35°	644	653	682	686	684	403
45°	498	507	523	547	550	385
55°	349	355	372	393	404	312
65°	204	210	222	238	252	203
75°	82	86	93	97	103	90
85°	13	13	13	12	12	17
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	957.5	957.5	957.5	957.5	957.5
2.5°	960.1	960.4	958.2	952.3	948.7
5°	956.4	956.0	952.3	947.2	944.3
7.5°	945.7	946.5	945.4	938.0	934.0
10°	935.4	935.8	932.9	927.0	922.2
12.5°	922.2	921.8	917.8	914.8	907.1
15°	901.2	903.4	901.2	897.2	890.9
17.5°	881.0	881.0	882.5	875.5	870.7
20°	858.2	859.3	859.3	853.8	848.2
22.5°	831.7	835.0	836.1	830.2	823.6
25°	800.4	806.7	810.4	804.5	797.5
27.5°	762.5	772.1	783.1	778.7	771.0
30°	720.2	734.2	752.6	748.9	743.4
32.5°	680.1	694.1	719.5	718.0	715.1
35°	643.7	652.6	682.4	686.0	683.5
37.5°	609.1	617.2	645.2	653.7	651.5
40°	572.7	581.6	603.6	618.7	619.4
42.5°	536.7	545.1	563.2	584.9	584.9
45°	498.4	506.9	523.4	547.4	550.3
47.5°	460.9	469.7	485.9	509.8	514.6
50°	424.1	432.2	448.4	471.6	478.9
52.5°	385.9	394.7	410.5	431.8	442.5
55°	349.1	355.0	372.3	392.9	404.3
57.5°	310.8	316.3	335.8	353.5	365.3
60°	274.0	281.0	296.1	314.1	327.7
62.5°	238.7	246.1	259.0	274.8	290.2
65°	204.5	210.0	222.5	238.4	252.0
67.5°	171.4	176.2	188.7	199.7	214.1
70°	137.9	144.2	153.4	164.1	173.3
72.5°	111.1	113.7	121.4	129.1	138.7
75°	82.0	86.4	92.7	97.1	102.6
77.5°	58.9	61.4	65.1	68.8	73.9
80°	39.4	40.5	43.8	44.5	48.6
82.5°	23.9	24.6	25.4	25.7	27.2
85°	12.9	12.9	12.9	12.1	12.1
87.5°	7.4	7.4	6.3	5.1	3.7
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)