

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: P555816

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-93-88-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: P555816
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-LD4-3LO-40-UNV-93-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

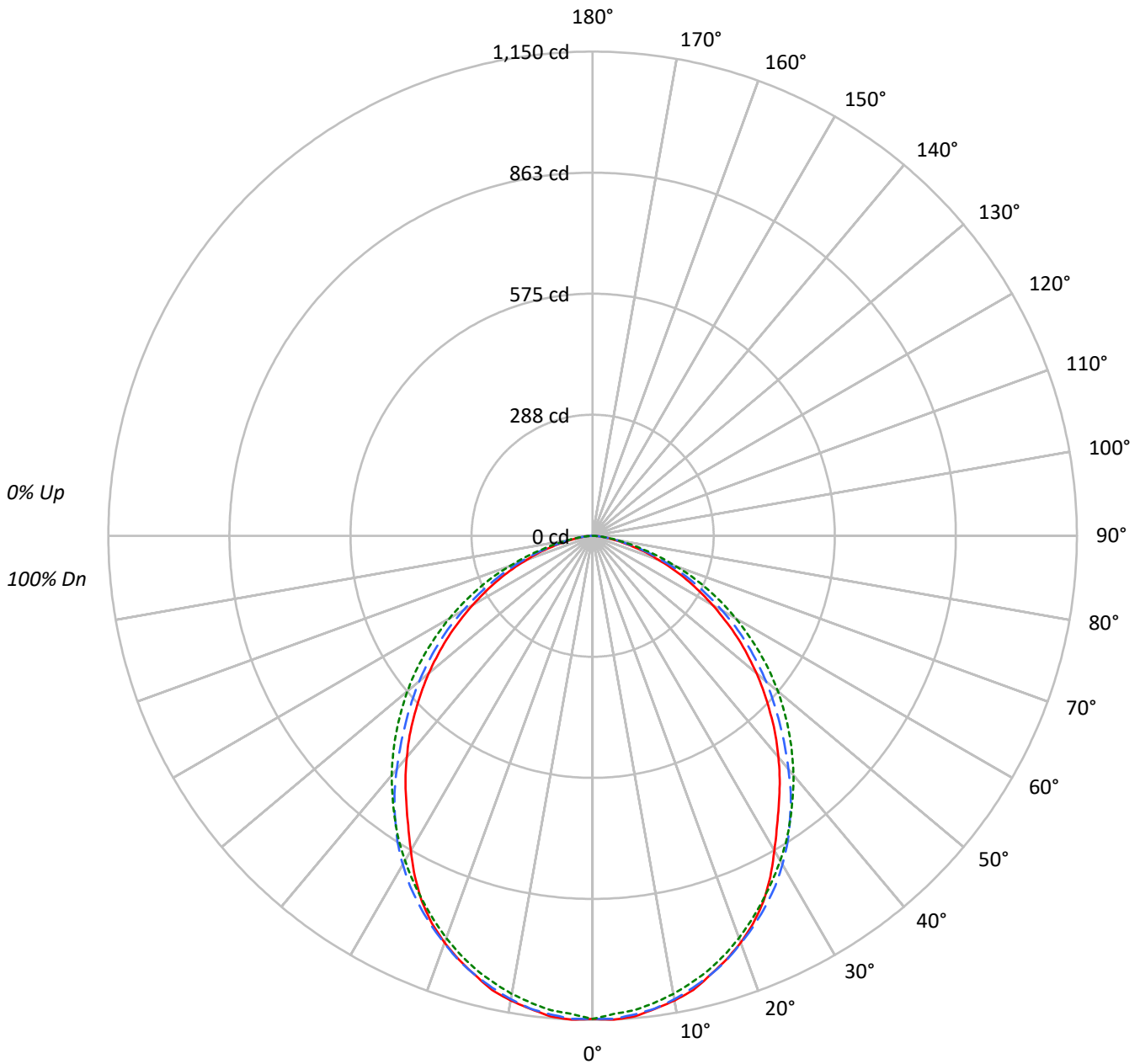
Lumens per Lamp: N/A
Luminaire Lumens: 2653.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6175	6175	6175
5°	6191	6165	6113
10°	6126	6109	6039
15°	6017	6017	5948
20°	5889	5897	5821
25°	5695	5766	5675
30°	5363	5604	5536
35°	5068	5372	5381
40°	4822	5082	5215
45°	4546	4774	5019
50°	4255	4499	4805
55°	3925	4186	4545
60°	3535	3819	4227
65°	3121	3396	3845
70°	2601	2892	3267
75°	2044	2310	2558
80°	1463	1627	1804
85°	951	951	895



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	4.1
10°-20°	303.5	11.4
20°-30°	443.5	16.7
30°-40°	503.4	19.0
40°-50°	486.0	18.3
50°-60°	400.9	15.1
60°-70°	267.0	10.1
70°-80°	119.5	4.5
80°-90°	21.4	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°	855.0	32.2
0°-40°	1358.4	51.2
0°-60°	2245.2	84.6
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1147	1147	1147	1147	1147	
5°	1146	1146	1141	1135	1132	108
15°	1080	1083	1080	1075	1068	304
25°	959	967	971	964	956	439
35°	771	782	818	822	819	483
45°	597	607	627	656	659	461
55°	418	425	446	471	484	373
65°	245	252	267	286	302	243
75°	98	104	111	116	123	107
85°	15	15	15	14	14	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.4	1147.4	1147.4	1147.4	1147.4
2.5°	1150.4	1150.9	1148.2	1141.2	1136.8
5°	1146.0	1145.6	1141.2	1135.0	1131.5
7.5°	1133.2	1134.1	1132.8	1124.0	1119.1
10°	1120.9	1121.3	1117.8	1110.8	1105.0
12.5°	1105.0	1104.6	1099.7	1096.2	1087.0
15°	1079.9	1082.6	1079.9	1075.1	1067.6
17.5°	1055.7	1055.7	1057.4	1049.1	1043.3
20°	1028.3	1029.7	1029.7	1023.1	1016.4
22.5°	996.6	1000.6	1001.9	994.8	986.9
25°	959.1	966.6	971.0	964.0	955.6
27.5°	913.7	925.2	938.4	933.1	923.9
30°	863.0	879.8	901.8	897.4	890.8
32.5°	815.0	831.8	862.2	860.4	856.9
35°	771.4	781.9	817.6	822.1	819.0
37.5°	729.9	739.6	773.1	783.3	780.6
40°	686.3	696.9	723.3	741.4	742.3
42.5°	643.1	653.2	674.8	700.8	700.8
45°	597.3	607.4	627.2	655.9	659.4
47.5°	552.3	562.9	582.3	610.9	616.7
50°	508.2	517.9	537.3	565.1	573.9
52.5°	462.4	473.0	491.9	517.5	530.3
55°	418.3	425.4	446.1	470.8	484.4
57.5°	372.5	379.1	402.4	423.6	437.7
60°	328.4	336.8	354.8	376.4	392.7
62.5°	286.1	294.9	310.3	329.3	347.8
65°	245.1	251.7	266.7	285.6	301.9
67.5°	205.4	211.1	226.1	239.3	256.5
70°	165.3	172.8	183.8	196.6	207.6
72.5°	133.1	136.2	145.5	154.7	166.2
75°	98.3	103.6	111.1	116.4	123.0
77.5°	70.5	73.6	78.0	82.4	88.6
80°	47.2	48.5	52.5	53.3	58.2
82.5°	28.7	29.5	30.4	30.9	32.6
85°	15.4	15.4	15.4	14.5	14.5
87.5°	8.8	8.8	7.5	6.2	4.4
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)