

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: P555129

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-88-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: P555129
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-30-UNV-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

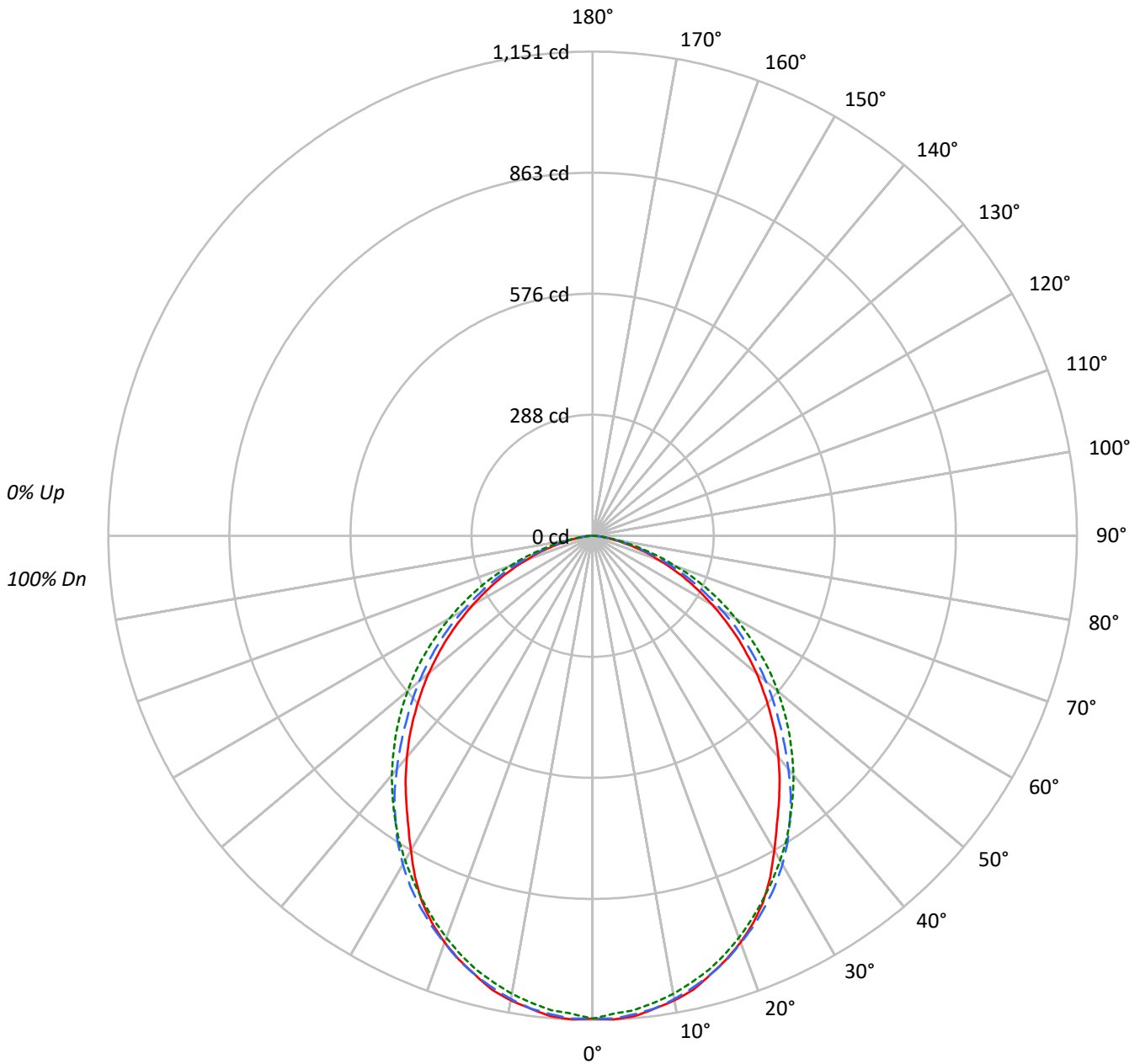
Lumens per Lamp: N/A
Luminaire Lumens: 2654.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6177	6177	6177
5°	6194	6168	6115
10°	6128	6111	6042
15°	6019	6019	5951
20°	5892	5900	5824
25°	5698	5768	5677
30°	5366	5607	5538
35°	5070	5374	5383
40°	4824	5084	5217
45°	4548	4776	5021
50°	4257	4500	4807
55°	3927	4187	4547
60°	3536	3821	4229
65°	3123	3398	3846
70°	2603	2894	3268
75°	2044	2310	2558
80°	1463	1627	1804
85°	951	951	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	4.1
10°-20°	303.6	11.4
20°-30°	443.7	16.7
30°-40°	503.6	19.0
40°-50°	486.1	18.3
50°-60°	401.0	15.1
60°-70°	267.1	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°	855.3	32.2
0°-40°	1358.9	51.2
0°-60°	2246.1	84.6
0°-90°	2654.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2654.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1148	1148	1148	1148	1148	
5°	1146	1146	1142	1135	1132	109
15°	1080	1083	1080	1076	1068	305
25°	960	967	971	964	956	439
35°	772	782	818	822	819	483
45°	598	608	628	656	660	461
55°	418	426	446	471	485	374
65°	245	252	267	286	302	243
75°	98	104	111	116	123	108
85°	15	15	15	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1147.8	1147.8	1147.8	1147.8	1147.8
2.5°	1150.9	1151.3	1148.7	1141.6	1137.2
5°	1146.5	1146.0	1141.6	1135.4	1131.9
7.5°	1133.7	1134.6	1133.2	1124.4	1119.6
10°	1121.3	1121.8	1118.2	1111.2	1105.5
12.5°	1105.5	1105.0	1100.2	1096.6	1087.4
15°	1080.3	1083.0	1080.3	1075.5	1068.0
17.5°	1056.1	1056.1	1057.8	1049.5	1043.7
20°	1028.7	1030.1	1030.1	1023.4	1016.8
22.5°	997.0	1001.0	1002.3	995.2	987.3
25°	959.5	967.0	971.4	964.4	956.0
27.5°	914.1	925.5	938.8	933.5	924.2
30°	863.4	880.1	902.2	897.8	891.2
32.5°	815.3	832.1	862.5	860.7	857.2
35°	771.7	782.2	818.0	822.4	819.3
37.5°	730.2	739.9	773.4	783.6	780.9
40°	686.6	697.1	723.6	741.7	742.6
42.5°	643.3	653.5	675.1	701.1	701.1
45°	597.5	607.6	627.5	656.1	659.7
47.5°	552.5	563.1	582.5	611.2	616.9
50°	508.4	518.1	537.5	565.3	574.1
52.5°	462.6	473.1	492.1	517.7	530.5
55°	418.5	425.5	446.2	470.9	484.6
57.5°	372.6	379.2	402.6	423.8	437.9
60°	328.5	336.9	355.0	376.6	392.9
62.5°	286.2	295.0	310.4	329.4	347.9
65°	245.2	251.8	266.8	285.7	302.0
67.5°	205.5	211.2	226.2	239.4	256.6
70°	165.4	172.9	183.9	196.7	207.7
72.5°	133.2	136.3	145.5	154.8	166.2
75°	98.3	103.6	111.1	116.4	123.0
77.5°	70.6	73.6	78.0	82.5	88.6
80°	47.2	48.5	52.5	53.4	58.2
82.5°	28.7	29.5	30.4	30.9	32.6
85°	15.4	15.4	15.4	14.6	14.6
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)