

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: P555218

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-85-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: P555218
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-82-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

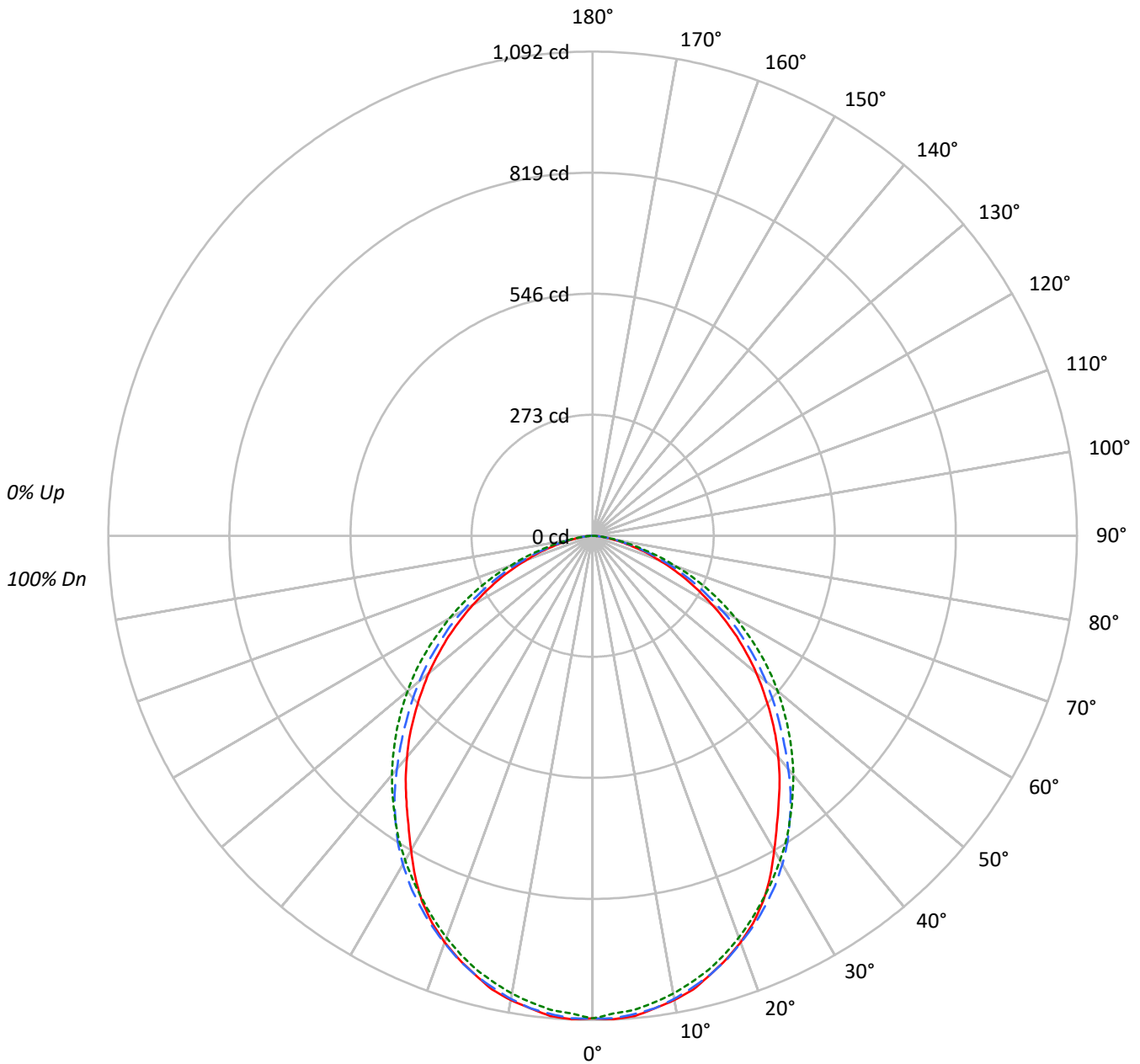
Lumens per Lamp: N/A
Luminaire Lumens: 2517.0 lumens
Efficiency: N/A
Efficacy: 75.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5858	5858	5858
5°	5874	5849	5800
10°	5811	5796	5729
15°	5709	5709	5643
20°	5588	5595	5523
25°	5404	5471	5384
30°	5088	5317	5253
35°	4808	5096	5105
40°	4574	4821	4947
45°	4313	4529	4762
50°	4037	4268	4559
55°	3724	3971	4312
60°	3353	3623	4011
65°	2961	3222	3649
70°	2467	2744	3100
75°	1940	2192	2427
80°	1385	1543	1711
85°	902	902	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.5	4.1
10°-20°	287.9	11.4
20°-30°	420.7	16.7
30°-40°	477.6	19.0
40°-50°	461.0	18.3
50°-60°	380.3	15.1
60°-70°	253.3	10.1
70°-80°	113.3	4.5
80°-90°	20.3	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°	811.2	32.2
0°-40°	1288.8	51.2
0°-60°	2130.1	84.6
0°-90°	2517.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2517.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1087	1087	1083	1077	1074	103
15°	1025	1027	1025	1020	1013	289
25°	910	917	921	915	907	417
35°	732	742	776	780	777	459
45°	567	576	595	622	626	437
55°	397	404	423	447	460	354
65°	232	239	253	271	286	231
75°	93	98	105	110	117	102
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1088.5	1088.5	1088.5	1088.5	1088.5
2.5°	1091.5	1091.9	1089.4	1082.7	1078.5
5°	1087.3	1086.9	1082.7	1076.8	1073.5
7.5°	1075.2	1076.0	1074.7	1066.4	1061.8
10°	1063.4	1063.9	1060.5	1053.8	1048.4
12.5°	1048.4	1048.0	1043.4	1040.0	1031.2
15°	1024.6	1027.1	1024.6	1020.0	1012.8
17.5°	1001.6	1001.6	1003.2	995.3	989.8
20°	975.6	976.9	976.9	970.6	964.3
22.5°	945.5	949.3	950.5	943.8	936.3
25°	910.0	917.1	921.3	914.6	906.6
27.5°	866.9	877.8	890.3	885.3	876.5
30°	818.8	834.7	855.6	851.4	845.2
32.5°	773.2	789.1	818.0	816.3	813.0
35°	731.8	741.9	775.7	779.9	777.0
37.5°	692.5	701.7	733.5	743.1	740.6
40°	651.1	661.2	686.2	703.4	704.2
42.5°	610.1	619.8	640.2	664.9	664.9
45°	566.6	576.3	595.1	622.3	625.6
47.5°	524.0	534.0	552.4	579.6	585.0
50°	482.2	491.4	509.8	536.1	544.5
52.5°	438.7	448.7	466.7	491.0	503.1
55°	396.9	403.5	423.2	446.6	459.6
57.5°	353.4	359.6	381.8	401.9	415.3
60°	311.5	319.5	336.6	357.1	372.6
62.5°	271.4	279.8	294.4	312.4	329.9
65°	232.5	238.8	253.0	271.0	286.5
67.5°	194.9	200.3	214.5	227.1	243.4
70°	156.8	163.9	174.4	186.5	197.0
72.5°	126.3	129.2	138.0	146.8	157.7
75°	93.3	98.3	105.4	110.4	116.7
77.5°	66.9	69.8	74.0	78.2	84.1
80°	44.7	46.0	49.8	50.6	55.2
82.5°	27.2	28.0	28.9	29.3	30.9
85°	14.6	14.6	14.6	13.8	13.8
87.5°	8.4	8.4	7.1	5.9	4.2
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)