

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: P555188

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-86-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: P555188  
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-80-86-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

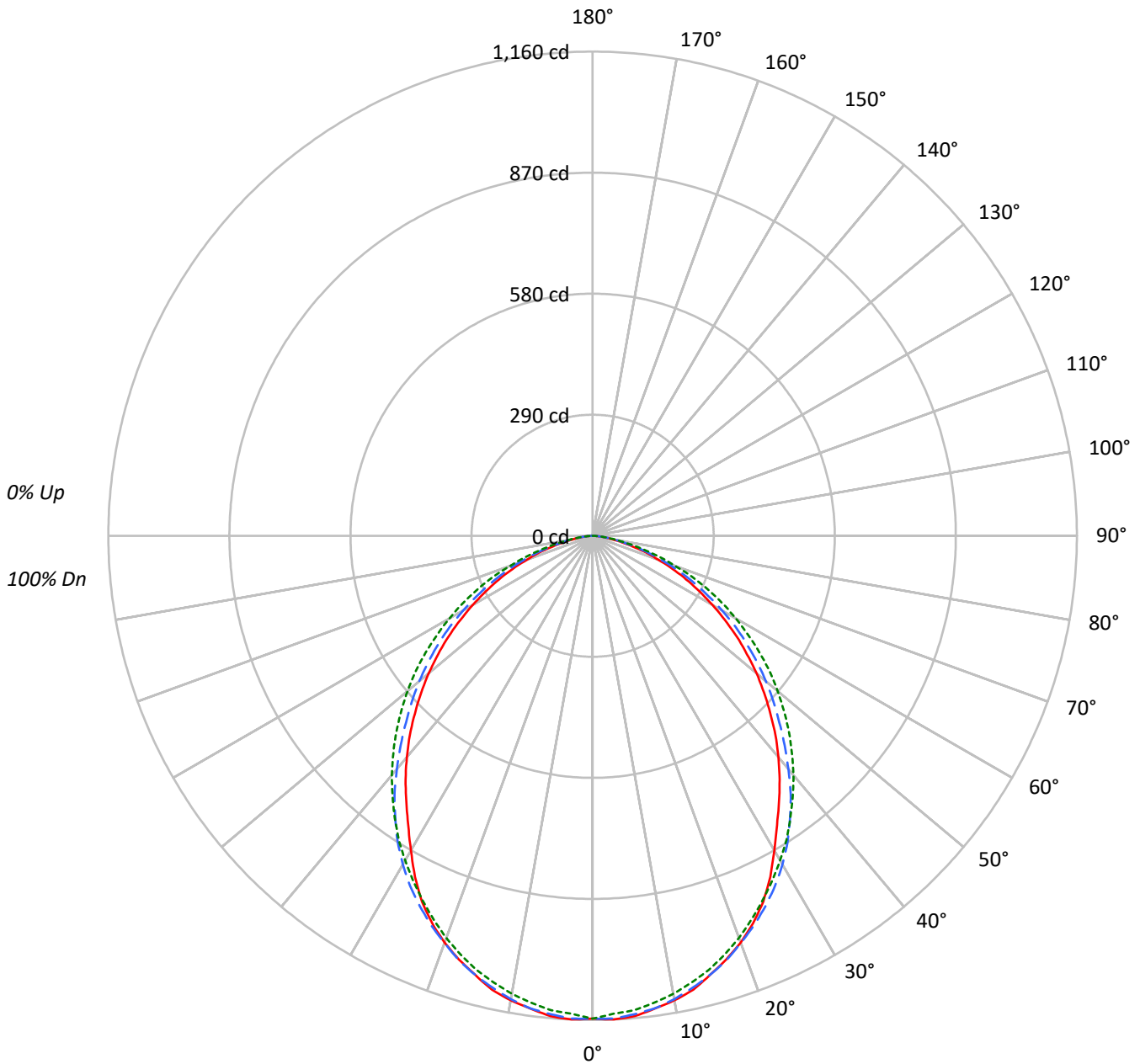
Lumens per Lamp: N/A  
Luminaire Lumens: 2675.0 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

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°	6226	6226	6226
5°	6243	6216	6164
10°	6177	6160	6089
15°	6067	6067	5997
20°	5939	5946	5870
25°	5743	5814	5722
30°	5408	5651	5582
35°	5110	5416	5426
40°	4862	5124	5258
45°	4583	4813	5061
50°	4290	4536	4845
55°	3958	4221	4583
60°	3564	3851	4263
65°	3147	3424	3876
70°	2623	2916	3294
75°	2061	2329	2578
80°	1475	1640	1819
85°	963	963	908



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.9	4.1
10°-20°	306.0	11.4
20°-30°	447.2	16.7
30°-40°	507.6	19.0
40°-50°	490.0	18.3
50°-60°	404.2	15.1
60°-70°	269.2	10.1
70°-80°	120.4	4.5
80°-90°	21.6	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°	862.1	32.2
0°-40°	1369.7	51.2
0°-60°	2263.8	84.6
0°-90°	2675.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2675.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1157	1157	1157	1157	1157	
5°	1156	1155	1151	1144	1141	109
15°	1089	1092	1089	1084	1076	307
25°	967	975	979	972	964	443
35°	778	788	824	829	826	487
45°	602	612	632	661	665	465
55°	422	429	450	475	488	376
65°	247	254	269	288	304	245
75°	99	104	112	117	124	108
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°	1156.9	1156.9	1156.9	1156.9	1156.9
2.5°	1160.0	1160.4	1157.8	1150.6	1146.2
5°	1155.5	1155.1	1150.6	1144.4	1140.9
7.5°	1142.6	1143.5	1142.2	1133.3	1128.4
10°	1130.2	1130.6	1127.1	1120.0	1114.2
12.5°	1114.2	1113.8	1108.9	1105.3	1096.0
15°	1088.9	1091.5	1088.9	1084.0	1076.4
17.5°	1064.4	1064.4	1066.2	1057.8	1052.0
20°	1036.9	1038.2	1038.2	1031.5	1024.9
22.5°	1004.9	1008.9	1010.2	1003.1	995.1
25°	967.1	974.6	979.1	972.0	963.5
27.5°	921.3	932.9	946.2	940.9	931.5
30°	870.2	887.1	909.3	904.9	898.2
32.5°	821.8	838.7	869.3	867.5	864.0
35°	777.8	788.4	824.4	828.9	825.8
37.5°	736.0	745.8	779.5	789.8	787.1
40°	692.0	702.7	729.3	747.5	748.4
42.5°	648.4	658.7	680.4	706.7	706.7
45°	602.2	612.4	632.4	661.3	664.9
47.5°	556.9	567.5	587.1	616.0	621.8
50°	512.4	522.2	541.8	569.8	578.7
52.5°	466.2	476.9	496.0	521.8	534.7
55°	421.8	428.9	449.8	474.7	488.4
57.5°	375.5	382.2	405.8	427.1	441.3
60°	331.1	339.5	357.8	379.5	396.0
62.5°	288.4	297.3	312.9	332.0	350.7
65°	247.1	253.8	268.9	288.0	304.4
67.5°	207.1	212.9	228.0	241.3	258.7
70°	166.7	174.2	185.3	198.2	209.3
72.5°	134.2	137.3	146.7	156.0	167.6
75°	99.1	104.4	112.0	117.3	124.0
77.5°	71.1	74.2	78.7	83.1	89.3
80°	47.6	48.9	52.9	53.8	58.7
82.5°	28.9	29.8	30.7	31.1	32.9
85°	15.6	15.6	15.6	14.7	14.7
87.5°	8.9	8.9	7.6	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)