

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: P555300

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-86-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: P555300  
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-40-UNV-93-86-EDD-90  
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

Luminaire Equipment: Sample No.   Condition   Description

**Summary**

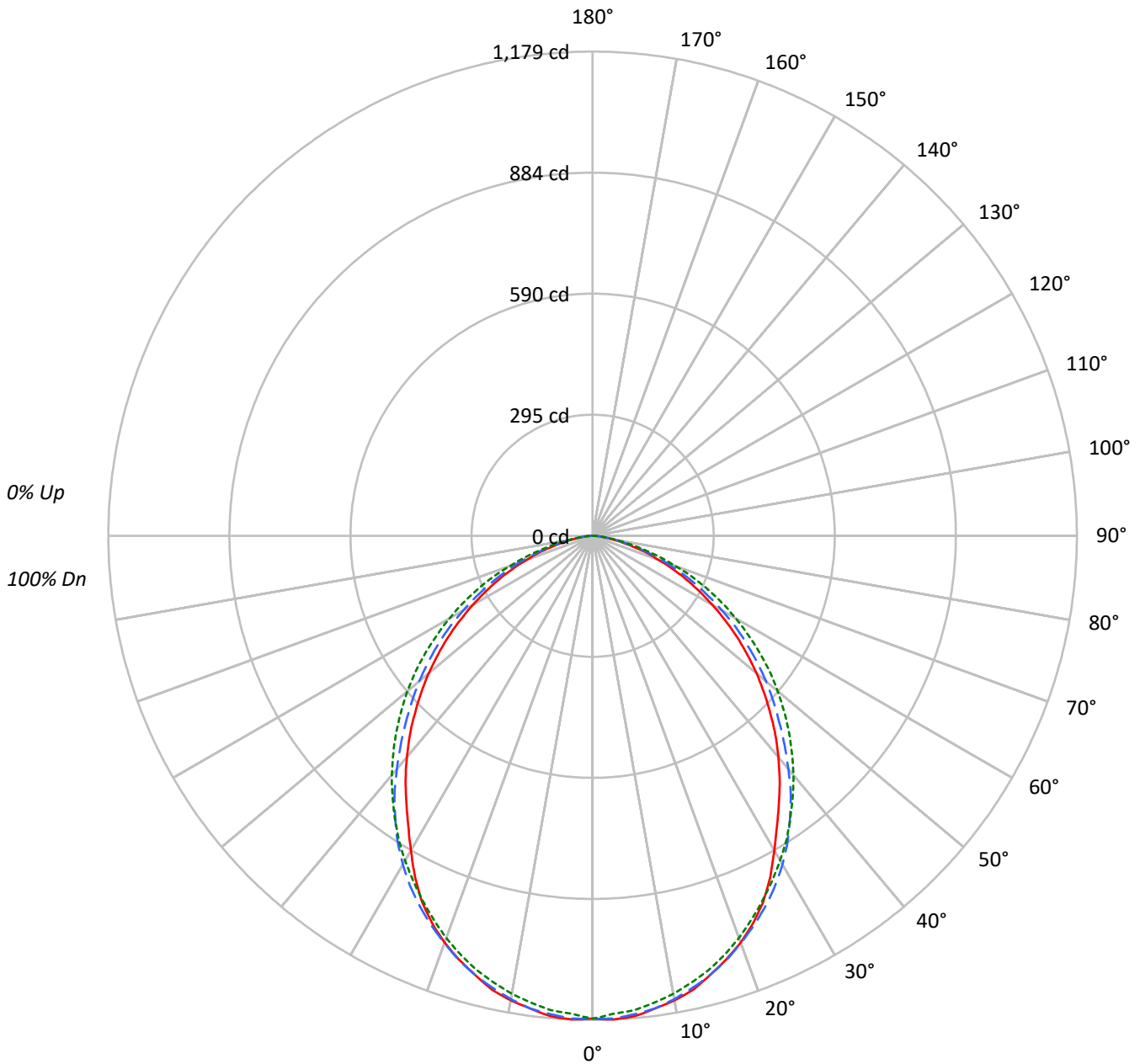
Lumens per Lamp: N/A  
Luminaire Lumens: 2719.0 lumens  
Efficiency: N/A  
Efficacy: 81.7 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26  
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')  
CIE Type: Direct

Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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°	6329	6329	6329
5°	6345	6319	6265
10°	6278	6261	6189
15°	6167	6167	6096
20°	6036	6044	5966
25°	5837	5910	5816
30°	5497	5744	5674
35°	5194	5506	5514
40°	4942	5208	5344
45°	4659	4893	5144
50°	4361	4611	4925
55°	4023	4290	4659
60°	3623	3915	4332
65°	3199	3480	3940
70°	2666	2965	3349
75°	2094	2366	2620
80°	1497	1667	1847
85°	976	976	920



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.7	4.1
10°-20°	311.0	11.4
20°-30°	454.5	16.7
30°-40°	515.9	19.0
40°-50°	498.0	18.3
50°-60°	410.9	15.1
60°-70°	273.6	10.1
70°-80°	122.4	4.5
80°-90°	21.9	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°	876.3	32.2
0°-40°	1392.2	51.2
0°-60°	2301.1	84.6
0°-90°	2719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2719.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1176	1176	1176	1176	1176	
5°	1174	1174	1170	1163	1160	111
15°	1107	1110	1107	1102	1094	312
25°	983	991	995	988	979	450
35°	791	801	838	842	839	495
45°	612	622	643	672	676	472
55°	429	436	457	482	496	383
65°	251	258	273	293	309	249
75°	101	106	114	119	126	110
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°	1175.9	1175.9	1175.9	1175.9	1175.9
2.5°	1179.1	1179.5	1176.8	1169.6	1165.1
5°	1174.5	1174.1	1169.6	1163.2	1159.6
7.5°	1161.4	1162.3	1161.0	1152.0	1147.0
10°	1148.8	1149.2	1145.6	1138.4	1132.5
12.5°	1132.5	1132.1	1127.1	1123.5	1114.0
15°	1106.8	1109.5	1106.8	1101.8	1094.1
17.5°	1081.9	1081.9	1083.7	1075.2	1069.3
20°	1053.9	1055.3	1055.3	1048.5	1041.7
22.5°	1021.4	1025.5	1026.8	1019.6	1011.5
25°	983.0	990.7	995.2	988.0	979.4
27.5°	936.5	948.2	961.8	956.3	946.9
30°	884.5	901.7	924.3	919.8	913.0
32.5°	835.3	852.4	883.6	881.8	878.2
35°	790.6	801.4	838.0	842.5	839.3
37.5°	748.1	758.0	792.4	802.8	800.0
40°	703.4	714.2	741.3	759.8	760.7
42.5°	659.1	669.5	691.6	718.3	718.3
45°	612.1	622.5	642.8	672.2	675.8
47.5°	566.0	576.9	596.8	626.1	632.0
50°	520.9	530.8	550.7	579.1	588.2
52.5°	473.9	484.7	504.1	530.4	543.5
55°	428.7	435.9	457.2	482.5	496.5
57.5°	381.7	388.5	412.4	434.1	448.6
60°	336.6	345.1	363.7	385.8	402.5
62.5°	293.2	302.2	318.0	337.5	356.4
65°	251.2	257.9	273.3	292.7	309.4
67.5°	210.5	216.4	231.7	245.3	262.9
70°	169.4	177.1	188.4	201.5	212.8
72.5°	136.4	139.6	149.1	158.6	170.3
75°	100.7	106.2	113.8	119.3	126.0
77.5°	72.3	75.4	80.0	84.5	90.8
80°	48.3	49.7	53.8	54.7	59.6
82.5°	29.4	30.3	31.2	31.6	33.4
85°	15.8	15.8	15.8	14.9	14.9
87.5°	9.0	9.0	7.7	6.3	4.5
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)