

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: P555241

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-88-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: P555241
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-93-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

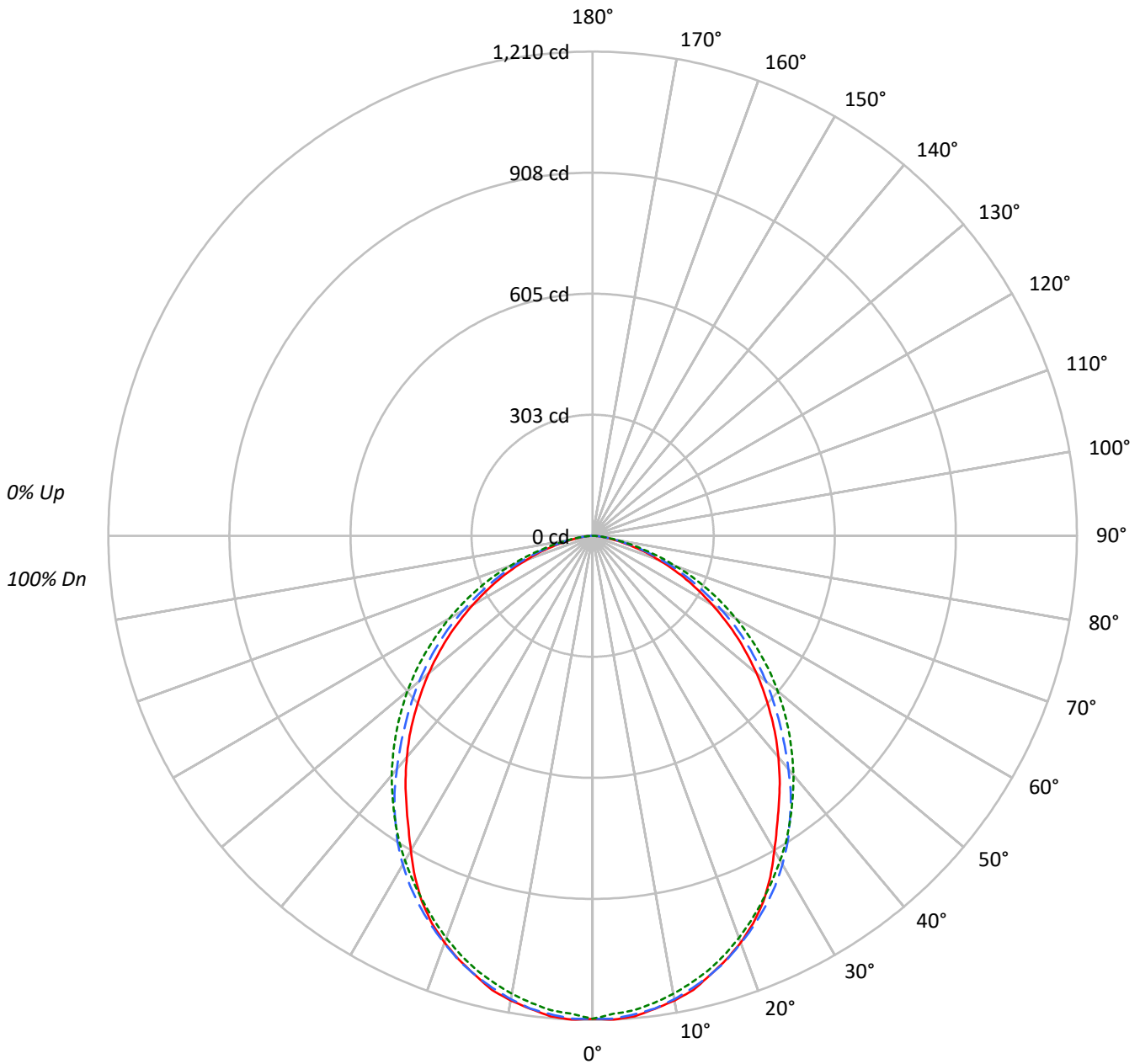
Lumens per Lamp: N/A
Luminaire Lumens: 2791.0 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (A_{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°	6496	6496	6496
5°	6513	6486	6431
10°	6444	6427	6353
15°	6330	6330	6258
20°	6196	6204	6124
25°	5992	6067	5970
30°	5642	5896	5824
35°	5332	5652	5661
40°	5073	5346	5486
45°	4782	5023	5280
50°	4477	4733	5055
55°	4130	4404	4782
60°	3719	4018	4448
65°	3283	3572	4045
70°	2736	3043	3437
75°	2150	2431	2691
80°	1537	1711	1897
85°	1000	1000	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	4.1
10°-20°	319.3	11.4
20°-30°	466.5	16.7
30°-40°	529.6	19.0
40°-50°	511.2	18.3
50°-60°	421.7	15.1
60°-70°	280.8	10.1
70°-80°	125.7	4.5
80°-90°	22.5	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°	899.5	32.2
0°-40°	1429.0	51.2
0°-60°	2362.0	84.6
0°-90°	2791.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2791.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1206	1205	1200	1194	1190	114
15°	1136	1139	1136	1131	1123	320
25°	1009	1017	1022	1014	1005	462
35°	812	823	860	865	862	508
45°	628	639	660	690	694	485
55°	440	448	469	495	510	393
65°	258	265	280	300	318	256
75°	103	109	117	122	129	113
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.0	1207.0	1207.0	1207.0	1207.0
2.5°	1210.3	1210.7	1208.0	1200.5	1195.9
5°	1205.6	1205.2	1200.5	1194.1	1190.3
7.5°	1192.2	1193.1	1191.7	1182.5	1177.4
10°	1179.2	1179.7	1176.0	1168.5	1162.5
12.5°	1162.5	1162.1	1157.0	1153.2	1143.5
15°	1136.1	1138.9	1136.1	1131.0	1123.1
17.5°	1110.6	1110.6	1112.4	1103.6	1097.6
20°	1081.8	1083.2	1083.2	1076.3	1069.3
22.5°	1048.4	1052.6	1054.0	1046.6	1038.2
25°	1009.0	1016.9	1021.6	1014.1	1005.3
27.5°	961.3	973.3	987.2	981.7	971.9
30°	907.9	925.6	948.7	944.1	937.2
32.5°	857.4	875.0	907.0	905.2	901.5
35°	811.5	822.6	860.2	864.8	861.6
37.5°	767.9	778.1	813.3	824.0	821.2
40°	722.0	733.1	760.9	780.0	780.9
42.5°	676.6	687.2	709.9	737.3	737.3
45°	628.3	639.0	659.9	690.0	693.7
47.5°	581.0	592.2	612.6	642.7	648.7
50°	534.7	544.9	565.3	594.5	603.7
52.5°	486.4	497.6	517.5	544.4	557.8
55°	440.1	447.5	469.3	495.2	509.6
57.5°	391.8	398.8	423.4	445.6	460.5
60°	345.5	354.3	373.3	396.0	413.2
62.5°	300.9	310.2	326.5	346.4	365.9
65°	257.8	264.8	280.5	300.5	317.6
67.5°	216.1	222.1	237.9	251.8	269.9
70°	173.9	181.8	193.4	206.8	218.4
72.5°	140.0	143.3	153.0	162.8	174.8
75°	103.4	109.0	116.9	122.4	129.4
77.5°	74.2	77.4	82.1	86.7	93.2
80°	49.6	51.0	55.2	56.1	61.2
82.5°	30.1	31.1	32.0	32.5	34.3
85°	16.2	16.2	16.2	15.3	15.3
87.5°	9.3	9.3	7.9	6.5	4.6
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)