

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: P555242

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-94-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: P555242
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-93-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE
AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

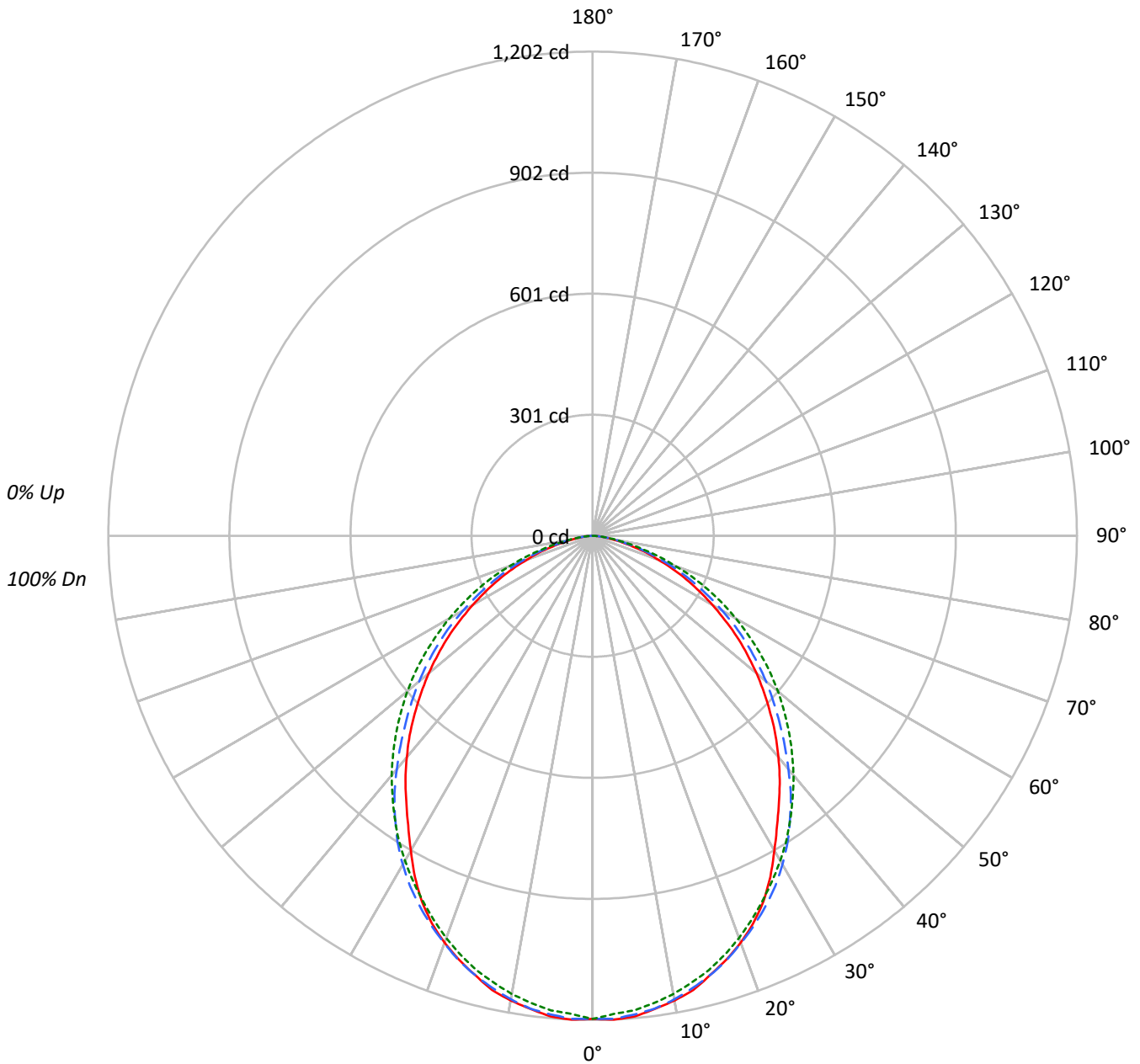
Lumens per Lamp: N/A
Luminaire Lumens: 2773.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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°	6455	6455	6455
5°	6472	6444	6390
10°	6403	6385	6312
15°	6289	6289	6218
20°	6156	6164	6085
25°	5953	6027	5931
30°	5606	5858	5786
35°	5298	5615	5624
40°	5039	5311	5451
45°	4752	4990	5246
50°	4448	4702	5023
55°	4102	4374	4751
60°	3694	3992	4419
65°	3263	3549	4019
70°	2719	3023	3415
75°	2136	2414	2672
80°	1528	1698	1884
85°	994	994	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.9	4.1
10°-20°	317.2	11.4
20°-30°	463.5	16.7
30°-40°	526.2	19.0
40°-50°	507.9	18.3
50°-60°	419.0	15.1
60°-70°	279.0	10.1
70°-80°	124.9	4.5
80°-90°	22.3	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°	893.7	32.2
0°-40°	1419.8	51.2
0°-60°	2346.8	84.6
0°-90°	2773.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2773.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1199	1199	1199	1199	1199	
5°	1198	1197	1193	1186	1183	113
15°	1129	1132	1129	1124	1116	318
25°	1002	1010	1015	1008	999	459
35°	806	817	855	859	856	505
45°	624	635	656	686	689	482
55°	437	445	466	492	506	390
65°	256	263	279	298	316	254
75°	103	108	116	122	128	112
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°	1199.3	1199.3	1199.3	1199.3	1199.3
2.5°	1202.5	1202.9	1200.2	1192.8	1188.2
5°	1197.9	1197.4	1192.8	1186.4	1182.7
7.5°	1184.5	1185.4	1184.0	1174.8	1169.8
10°	1171.6	1172.1	1168.4	1161.0	1155.0
12.5°	1155.0	1154.6	1149.5	1145.8	1136.1
15°	1128.8	1131.5	1128.8	1123.7	1115.9
17.5°	1103.4	1103.4	1105.3	1096.5	1090.5
20°	1074.9	1076.2	1076.2	1069.3	1062.4
22.5°	1041.7	1045.8	1047.2	1039.8	1031.5
25°	1002.5	1010.4	1015.0	1007.6	998.8
27.5°	955.1	967.0	980.9	975.3	965.7
30°	902.1	919.6	942.6	938.0	931.1
32.5°	851.9	869.4	901.2	899.3	895.6
35°	806.3	817.3	854.6	859.2	856.0
37.5°	763.0	773.1	808.1	818.7	815.9
40°	717.3	728.4	756.0	774.9	775.9
42.5°	672.2	682.8	705.4	732.5	732.5
45°	624.3	634.9	655.6	685.5	689.2
47.5°	577.3	588.3	608.6	638.6	644.5
50°	531.2	541.3	561.6	590.6	599.9
52.5°	483.3	494.4	514.2	540.9	554.2
55°	437.2	444.6	466.2	492.0	506.3
57.5°	389.3	396.2	420.6	442.8	457.5
60°	343.2	352.0	370.9	393.5	410.5
62.5°	299.0	308.2	324.3	344.2	363.5
65°	256.2	263.1	278.7	298.5	315.6
67.5°	214.7	220.7	236.3	250.2	268.1
70°	172.8	180.6	192.1	205.5	217.0
72.5°	139.1	142.4	152.0	161.7	173.7
75°	102.7	108.3	116.1	121.6	128.5
77.5°	73.7	76.9	81.5	86.2	92.6
80°	49.3	50.7	54.8	55.7	60.8
82.5°	29.9	30.9	31.8	32.3	34.1
85°	16.1	16.1	16.1	15.2	15.2
87.5°	9.2	9.2	7.8	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)