

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: P555260

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-96-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: P555260
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-80-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

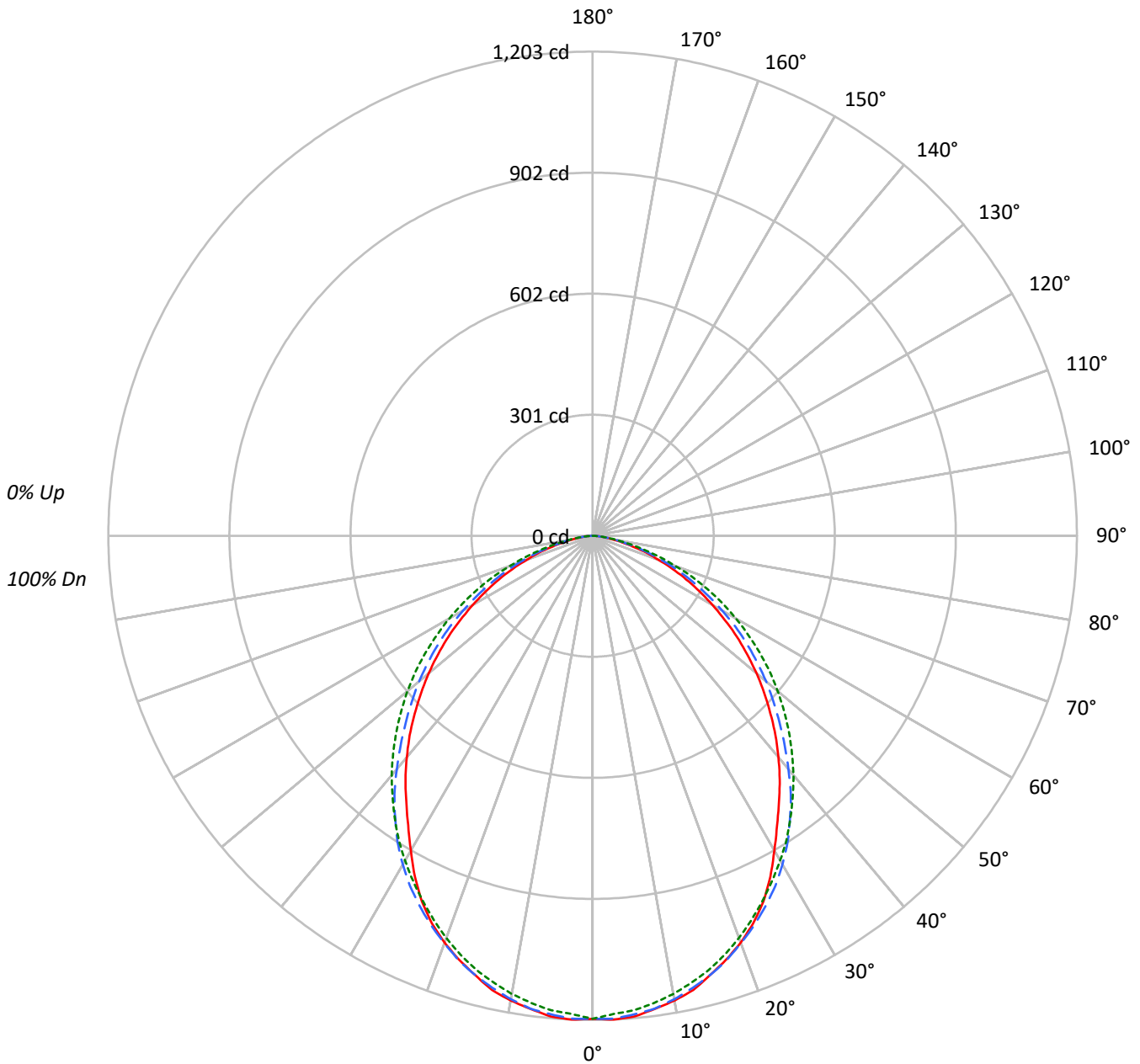
Lumens per Lamp: N/A
Luminaire Lumens: 2775.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6459	6459	6459
5°	6476	6449	6394
10°	6408	6390	6317
15°	6294	6294	6222
20°	6160	6168	6089
25°	5957	6032	5936
30°	5610	5862	5791
35°	5301	5619	5628
40°	5044	5316	5455
45°	4755	4994	5249
50°	4451	4706	5026
55°	4105	4378	4754
60°	3697	3994	4422
65°	3264	3552	4022
70°	2721	3026	3418
75°	2138	2416	2674
80°	1528	1702	1888
85°	994	994	939



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.0	4.1
10°-20°	317.4	11.4
20°-30°	463.9	16.7
30°-40°	526.5	19.0
40°-50°	508.3	18.3
50°-60°	419.3	15.1
60°-70°	279.2	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°	894.3	32.2
0°-40°	1420.9	51.2
0°-60°	2348.5	84.6
0°-90°	2775.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2775.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1200	1200	1200	1200	1200	
5°	1199	1198	1194	1187	1184	113
15°	1130	1132	1130	1124	1117	318
25°	1003	1011	1016	1008	1000	459
35°	807	818	855	860	857	506
45°	625	635	656	686	690	482
55°	438	445	467	492	507	391
65°	256	263	279	299	316	254
75°	103	108	116	122	129	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°	1200.1	1200.1	1200.1	1200.1	1200.1
2.5°	1203.3	1203.8	1201.0	1193.7	1189.1
5°	1198.7	1198.3	1193.7	1187.2	1183.5
7.5°	1185.4	1186.3	1184.9	1175.7	1170.6
10°	1172.5	1172.9	1169.2	1161.8	1155.9
12.5°	1155.9	1155.4	1150.3	1146.6	1137.0
15°	1129.6	1132.3	1129.6	1124.5	1116.7
17.5°	1104.2	1104.2	1106.1	1097.3	1091.3
20°	1075.6	1077.0	1077.0	1070.1	1063.2
22.5°	1042.4	1046.6	1048.0	1040.6	1032.3
25°	1003.2	1011.1	1015.7	1008.3	999.6
27.5°	955.8	967.7	981.6	976.0	966.4
30°	902.7	920.3	943.3	938.7	931.8
32.5°	852.5	870.0	901.8	900.0	896.3
35°	806.8	817.9	855.2	859.9	856.6
37.5°	763.5	773.6	808.7	819.3	816.5
40°	717.9	728.9	756.6	775.5	776.4
42.5°	672.7	683.3	705.9	733.1	733.1
45°	624.7	635.3	656.1	686.0	689.7
47.5°	577.7	588.8	609.0	639.0	645.0
50°	531.6	541.7	562.0	591.1	600.3
52.5°	483.6	494.7	514.5	541.3	554.6
55°	437.5	444.9	466.6	492.4	506.7
57.5°	389.6	396.5	420.9	443.1	457.8
60°	343.5	352.2	371.1	393.7	410.8
62.5°	299.2	308.4	324.6	344.4	363.8
65°	256.3	263.3	278.9	298.8	315.8
67.5°	214.8	220.8	236.5	250.4	268.3
70°	172.9	180.7	192.3	205.6	217.2
72.5°	139.2	142.5	152.1	161.8	173.8
75°	102.8	108.3	116.2	121.7	128.6
77.5°	73.8	77.0	81.6	86.2	92.7
80°	49.3	50.7	54.9	55.8	60.9
82.5°	30.0	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)