

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: P555892

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-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: P555892
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-LD4-3STD-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

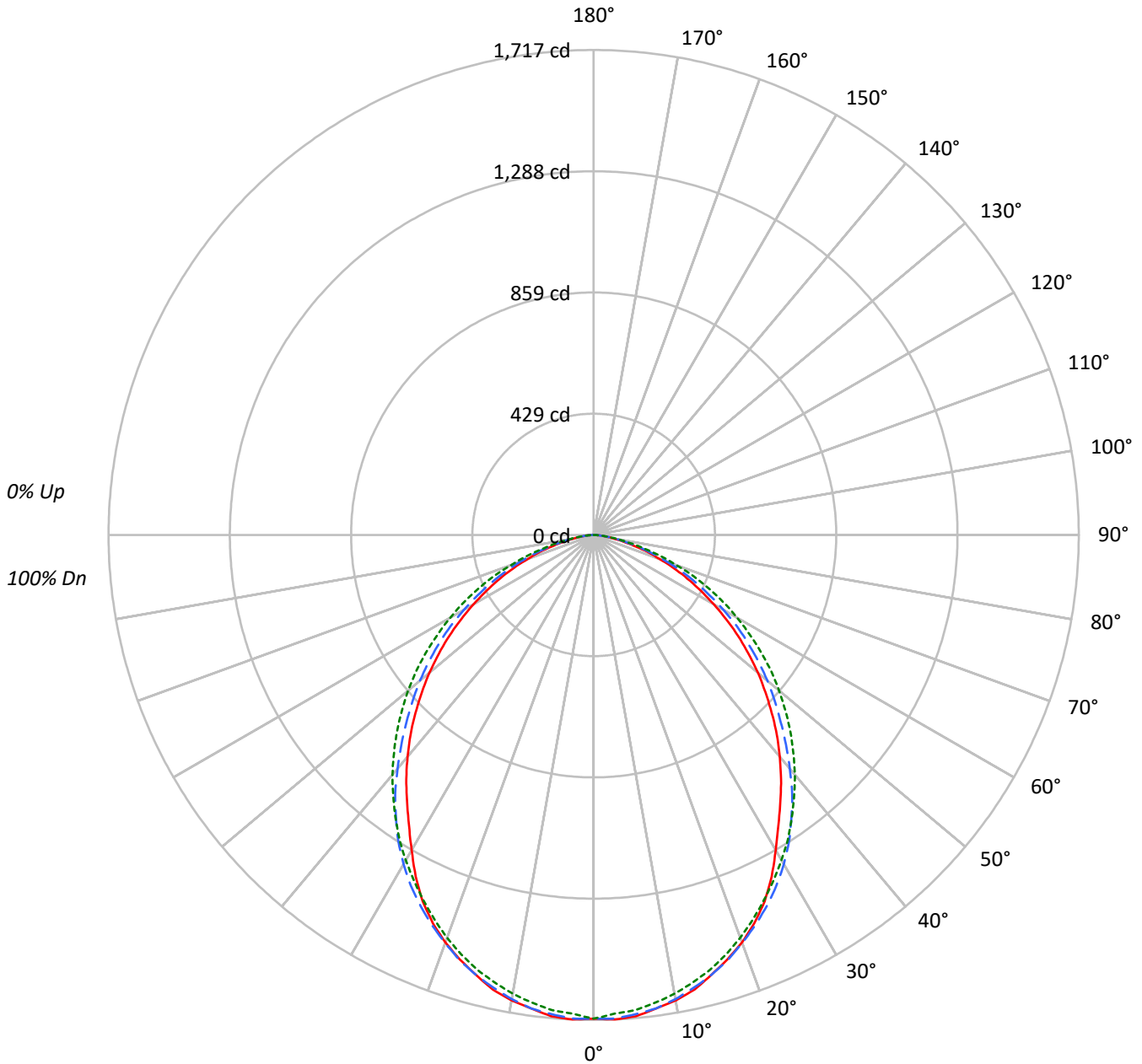
Lumens per Lamp: N/A
Luminaire Lumens: 3960.0 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	9217	9217	9217
5°	9242	9203	9124
10°	9143	9118	9014
15°	8981	8981	8879
20°	8791	8802	8690
25°	8502	8607	8470
30°	8006	8365	8263
35°	7565	8019	8031
40°	7197	7586	7784
45°	6785	7126	7492
50°	6352	6715	7172
55°	5859	6247	6785
60°	5276	5701	6310
65°	4658	5068	5740
70°	3882	4318	4877
75°	3051	3448	3818
80°	2182	2427	2690
85°	1420	1420	1340



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.2	4.1
10°-20°	453.0	11.4
20°-30°	662.0	16.7
30°-40°	751.4	19.0
40°-50°	725.4	18.3
50°-60°	598.4	15.1
60°-70°	398.5	10.1
70°-80°	178.3	4.5
80°-90°	31.9	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°	1276.2	32.2
0°-40°	2027.6	51.2
0°-60°	3351.3	84.6
0°-90°	3960.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3960.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1713	1713	1713	1713	1713	
5°	1711	1710	1703	1694	1689	162
15°	1612	1616	1612	1605	1594	454
25°	1432	1443	1449	1439	1426	656
35°	1151	1167	1220	1227	1222	721
45°	892	907	936	979	984	688
55°	624	635	666	703	723	557
65°	366	376	398	426	451	363
75°	147	155	166	174	184	160
85°	23	23	23	22	22	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1712.6	1712.6	1712.6	1712.6	1712.6
2.5°	1717.2	1717.9	1713.9	1703.4	1696.8
5°	1710.6	1710.0	1703.4	1694.2	1688.9
7.5°	1691.5	1692.9	1690.9	1677.7	1670.5
10°	1673.1	1673.8	1668.5	1658.0	1649.4
12.5°	1649.4	1648.8	1641.5	1636.3	1622.5
15°	1611.9	1615.9	1611.9	1604.7	1593.5
17.5°	1575.7	1575.7	1578.4	1565.9	1557.3
20°	1535.0	1536.9	1536.9	1527.1	1517.2
22.5°	1487.6	1493.5	1495.5	1485.0	1473.1
25°	1431.7	1442.8	1449.4	1438.9	1426.4
27.5°	1363.9	1381.0	1400.7	1392.8	1379.0
30°	1288.2	1313.2	1346.1	1339.6	1329.7
32.5°	1216.5	1241.5	1286.9	1284.3	1279.0
35°	1151.4	1167.2	1220.5	1227.0	1222.4
37.5°	1089.5	1104.0	1154.0	1169.1	1165.2
40°	1024.4	1040.2	1079.7	1106.6	1108.0
42.5°	959.9	975.1	1007.3	1046.1	1046.1
45°	891.5	906.6	936.2	979.0	984.3
47.5°	824.4	840.2	869.1	911.9	920.4
50°	758.6	773.1	802.0	843.5	856.6
52.5°	690.2	706.0	734.3	772.4	791.5
55°	624.4	634.9	665.8	702.7	723.1
57.5°	556.0	565.8	600.7	632.3	653.3
60°	490.2	502.7	529.6	561.9	586.2
62.5°	427.0	440.2	463.2	491.5	519.1
65°	365.8	375.7	398.0	426.3	450.7
67.5°	306.6	315.1	337.5	357.3	382.9
70°	246.7	257.9	274.4	293.4	309.9
72.5°	198.7	203.3	217.1	230.9	248.0
75°	146.7	154.6	165.8	173.7	183.6
77.5°	105.3	109.9	116.5	123.0	132.2
80°	70.4	72.4	78.3	79.6	86.8
82.5°	42.8	44.1	45.4	46.1	48.7
85°	23.0	23.0	23.0	21.7	21.7
87.5°	13.2	13.2	11.2	9.2	6.6
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)