

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: P557436

Luminaire Tested: **FUSL-12-4-LD4-2STD-30-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: P557436
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-12-4-LD4-2STD-30-UNV-80-96-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

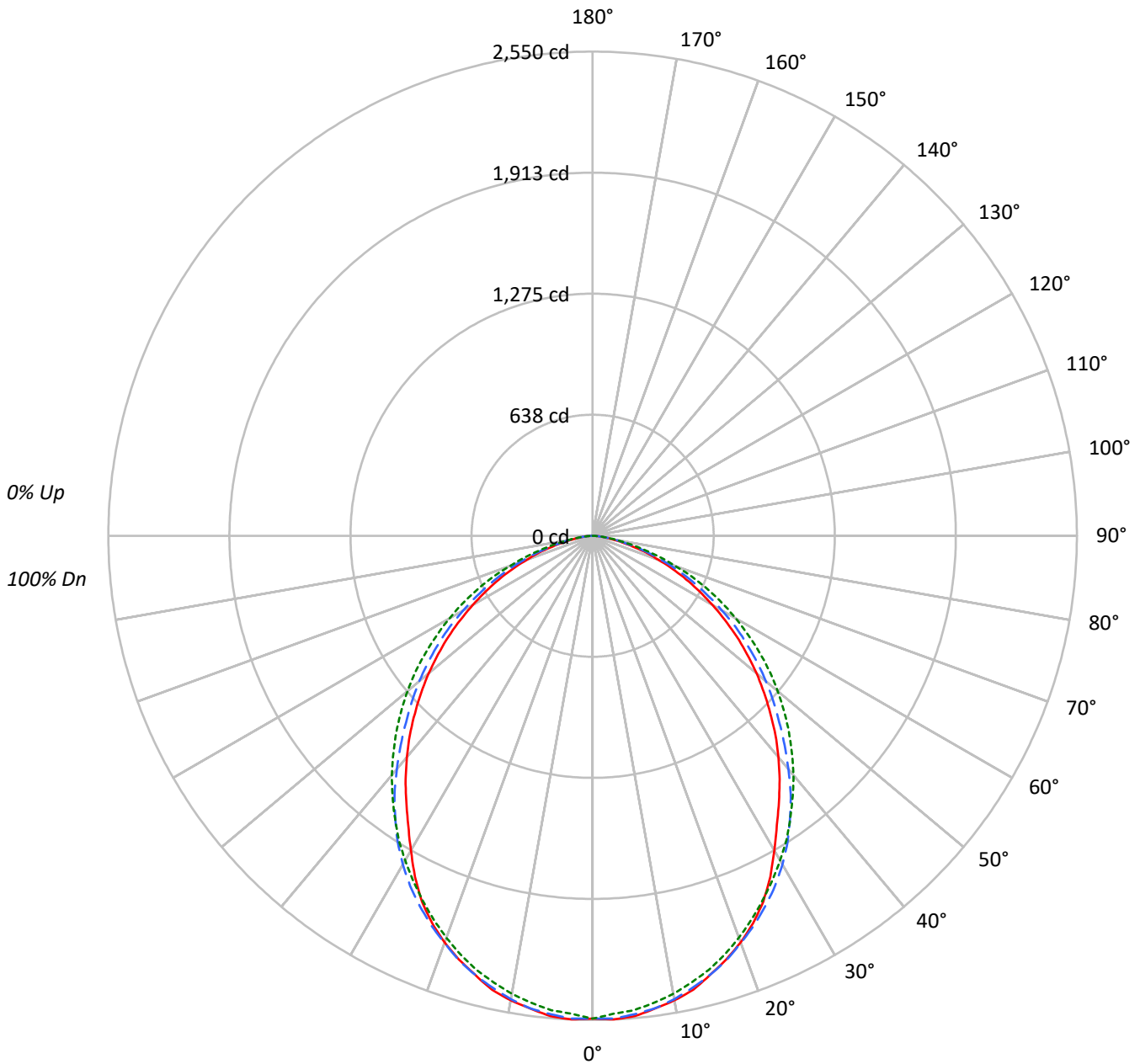
Lumens per Lamp: N/A
Luminaire Lumens: 5880.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
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					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6843	6843	6843
5°	6861	6832	6774
10°	6788	6770	6692
15°	6668	6668	6592
20°	6527	6535	6451
25°	6312	6390	6289
30°	5944	6211	6135
35°	5616	5953	5963
40°	5343	5631	5779
45°	5037	5291	5562
50°	4716	4986	5325
55°	4350	4639	5037
60°	3917	4232	4684
65°	3459	3763	4261
70°	2882	3205	3620
75°	2266	2560	2834
80°	1619	1802	1999
85°	1056	1056	994



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	239.4	4.1
10°-20°	672.6	11.4
20°-30°	982.9	16.7
30°-40°	1115.7	19.0
40°-50°	1077.0	18.3
50°-60°	888.5	15.1
60°-70°	591.7	10.1
70°-80°	264.8	4.5
80°-90°	47.4	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°	1895.0	32.2
0°-40°	3010.7	51.2
0°-60°	4976.2	84.6
0°-90°	5880.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2543	2543	2543	2543	2543	
5°	2540	2539	2529	2516	2508	240
15°	2394	2399	2394	2383	2366	675
25°	2126	2142	2152	2136	2118	974
35°	1710	1733	1812	1822	1815	1071
45°	1324	1346	1390	1454	1462	1021
55°	927	943	989	1043	1074	827
65°	543	558	591	633	669	539
75°	218	230	246	258	273	238
85°	34	34	34	32	32	46
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2542.9	2542.9	2542.9	2542.9	2542.9
2.5°	2549.8	2550.8	2544.9	2529.3	2519.5
5°	2540.0	2539.0	2529.3	2515.6	2507.8
7.5°	2511.7	2513.6	2510.7	2491.2	2480.4
10°	2484.3	2485.3	2477.5	2461.9	2449.2
12.5°	2449.2	2448.2	2437.4	2429.6	2409.1
15°	2393.5	2399.3	2393.5	2382.7	2366.1
17.5°	2339.7	2339.7	2343.7	2325.1	2312.4
20°	2279.2	2282.1	2282.1	2267.5	2252.8
22.5°	2208.8	2217.6	2220.6	2204.9	2187.3
25°	2125.8	2142.4	2152.2	2136.5	2118.0
27.5°	2025.2	2050.6	2079.9	2068.2	2047.6
30°	1912.8	1950.0	1998.8	1989.0	1974.4
32.5°	1806.3	1843.5	1910.9	1907.0	1899.2
35°	1709.6	1733.1	1812.2	1822.0	1815.1
37.5°	1617.8	1639.3	1713.5	1736.0	1730.1
40°	1521.1	1544.5	1603.1	1643.2	1645.1
42.5°	1425.3	1447.8	1495.7	1553.3	1553.3
45°	1323.7	1346.2	1390.2	1453.7	1461.5
47.5°	1224.1	1247.5	1290.5	1354.0	1366.7
50°	1126.4	1147.9	1190.9	1252.4	1272.0
52.5°	1024.8	1048.2	1090.3	1146.9	1175.2
55°	927.1	942.7	988.7	1043.4	1073.6
57.5°	825.5	840.2	891.9	938.8	970.1
60°	727.8	746.4	786.4	834.3	870.4
62.5°	634.0	653.6	687.8	729.8	770.8
65°	543.2	557.8	591.0	633.1	669.2
67.5°	455.2	467.9	501.2	530.5	568.6
70°	366.3	383.0	407.4	435.7	460.1
72.5°	295.0	301.9	322.4	342.9	368.3
75°	217.9	229.6	246.2	257.9	272.6
77.5°	156.3	163.1	172.9	182.7	196.4
80°	104.5	107.5	116.3	118.2	129.0
82.5°	63.5	65.5	67.4	68.4	72.3
85°	34.2	34.2	34.2	32.2	32.2
87.5°	19.5	19.5	16.6	13.7	9.8
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)