

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: P557558

Luminaire Tested: **FUSL-12-4-LD4-2STD-40-UNV-80-87-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: P557558
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-40-UNV-80-87-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

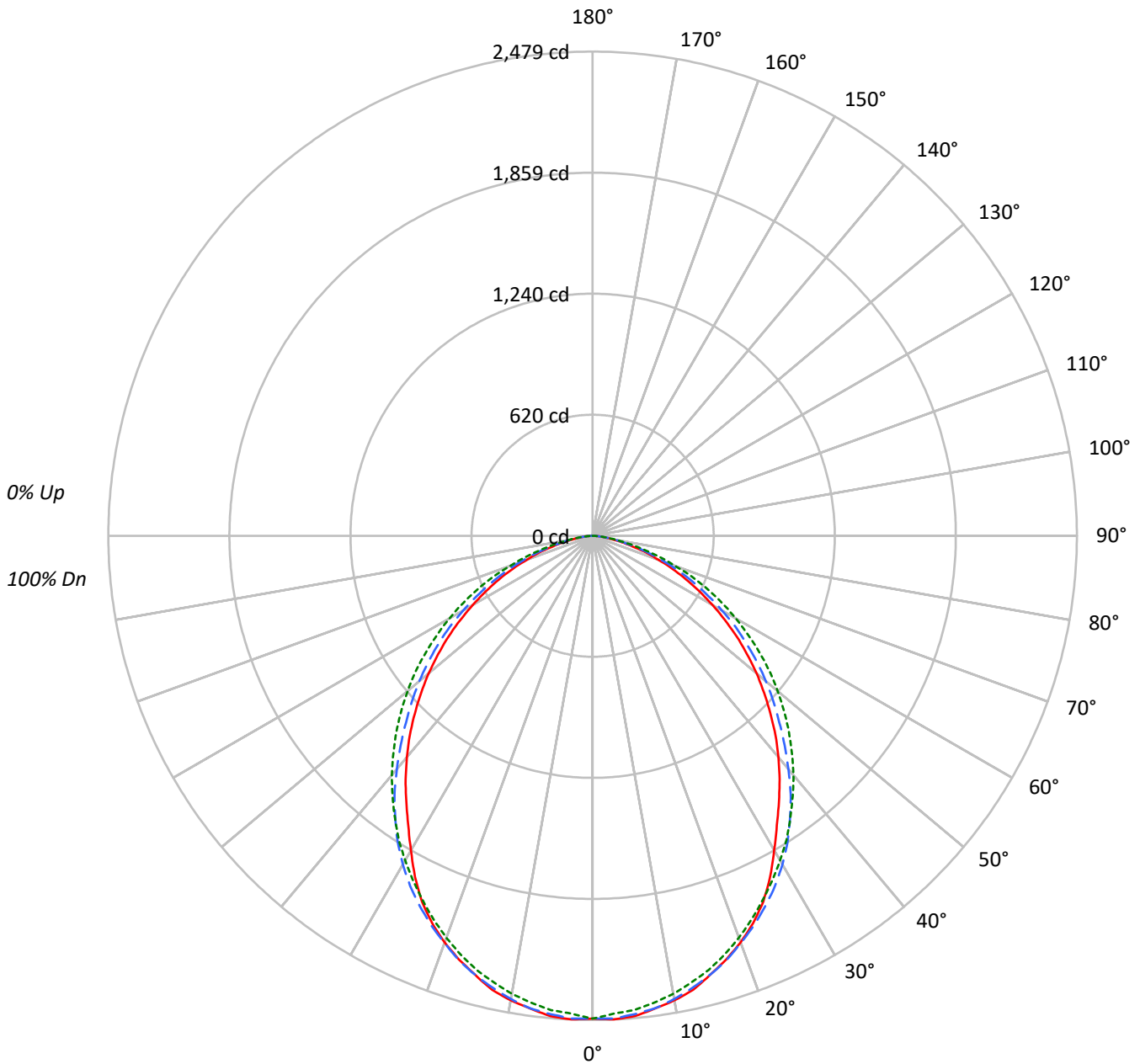
Lumens per Lamp: N/A
Luminaire Lumens: 5716.0 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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									
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°	6652	6652	6652
5°	6670	6642	6585
10°	6599	6581	6506
15°	6482	6482	6408
20°	6345	6353	6271
25°	6136	6212	6113
30°	5778	6037	5964
35°	5459	5787	5797
40°	5194	5474	5618
45°	4897	5143	5407
50°	4584	4847	5177
55°	4228	4509	4897
60°	3808	4115	4554
65°	3362	3659	4142
70°	2802	3116	3519
75°	2202	2488	2755
80°	1574	1751	1943
85°	1025	1025	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	232.7	4.1
10°-20°	653.9	11.4
20°-30°	955.5	16.7
30°-40°	1084.6	19.0
40°-50°	1047.0	18.3
50°-60°	863.7	15.1
60°-70°	575.2	10.1
70°-80°	257.4	4.5
80°-90°	46.0	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°	1842.1	32.2
0°-40°	2926.7	51.2
0°-60°	4837.4	84.6
0°-90°	5716.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5716.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2472	2472	2472	2472	2472	
5°	2469	2468	2459	2445	2438	234
15°	2327	2332	2327	2316	2300	656
25°	2066	2083	2092	2077	2059	946
35°	1662	1685	1762	1771	1764	1041
45°	1287	1309	1351	1413	1421	993
55°	901	916	961	1014	1044	804
65°	528	542	575	615	650	524
75°	212	223	239	251	265	232
85°	33	33	33	31	31	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2472.0	2472.0	2472.0	2472.0	2472.0
2.5°	2478.7	2479.6	2473.9	2458.7	2449.2
5°	2469.2	2468.2	2458.7	2445.4	2437.8
7.5°	2441.6	2443.5	2440.7	2421.7	2411.2
10°	2415.0	2416.0	2408.4	2393.2	2380.9
12.5°	2380.9	2379.9	2369.5	2361.9	2341.9
15°	2326.7	2332.4	2326.7	2316.3	2300.1
17.5°	2274.5	2274.5	2278.3	2260.2	2247.9
20°	2215.6	2218.5	2218.5	2204.2	2190.0
22.5°	2147.2	2155.8	2158.6	2143.4	2126.3
25°	2066.5	2082.7	2092.1	2077.0	2058.9
27.5°	1968.7	1993.4	2021.9	2010.5	1990.5
30°	1859.5	1895.6	1943.0	1933.6	1919.3
32.5°	1756.0	1792.1	1857.6	1853.8	1846.2
35°	1661.9	1684.7	1761.7	1771.2	1764.5
37.5°	1572.7	1593.6	1665.7	1687.6	1681.9
40°	1478.7	1501.4	1558.4	1597.4	1599.3
42.5°	1385.6	1407.4	1454.0	1510.0	1510.0
45°	1286.8	1308.7	1351.4	1413.1	1420.7
47.5°	1190.0	1212.7	1254.5	1316.3	1328.6
50°	1095.0	1115.9	1157.7	1217.5	1236.5
52.5°	996.2	1019.0	1059.8	1114.9	1142.5
55°	901.2	916.4	961.1	1014.3	1043.7
57.5°	802.5	816.7	867.1	912.6	943.0
60°	707.5	725.6	764.5	811.0	846.2
62.5°	616.3	635.3	668.6	709.4	749.3
65°	528.0	542.3	574.6	615.4	650.5
67.5°	442.6	454.9	487.2	515.7	552.7
70°	356.1	372.3	396.0	423.6	447.3
72.5°	286.8	293.5	313.4	333.3	358.0
75°	211.8	223.2	239.3	250.7	265.0
77.5°	151.9	158.6	168.1	177.6	190.9
80°	101.6	104.5	113.0	114.9	125.4
82.5°	61.7	63.6	65.5	66.5	70.3
85°	33.2	33.2	33.2	31.3	31.3
87.5°	19.0	19.0	16.1	13.3	9.5
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)