

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: P557630

Luminaire Tested: **FUSL-12-4-LD4-2STD-50-UNV-80-97-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: P557630
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-50-UNV-80-97-EDD-90
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

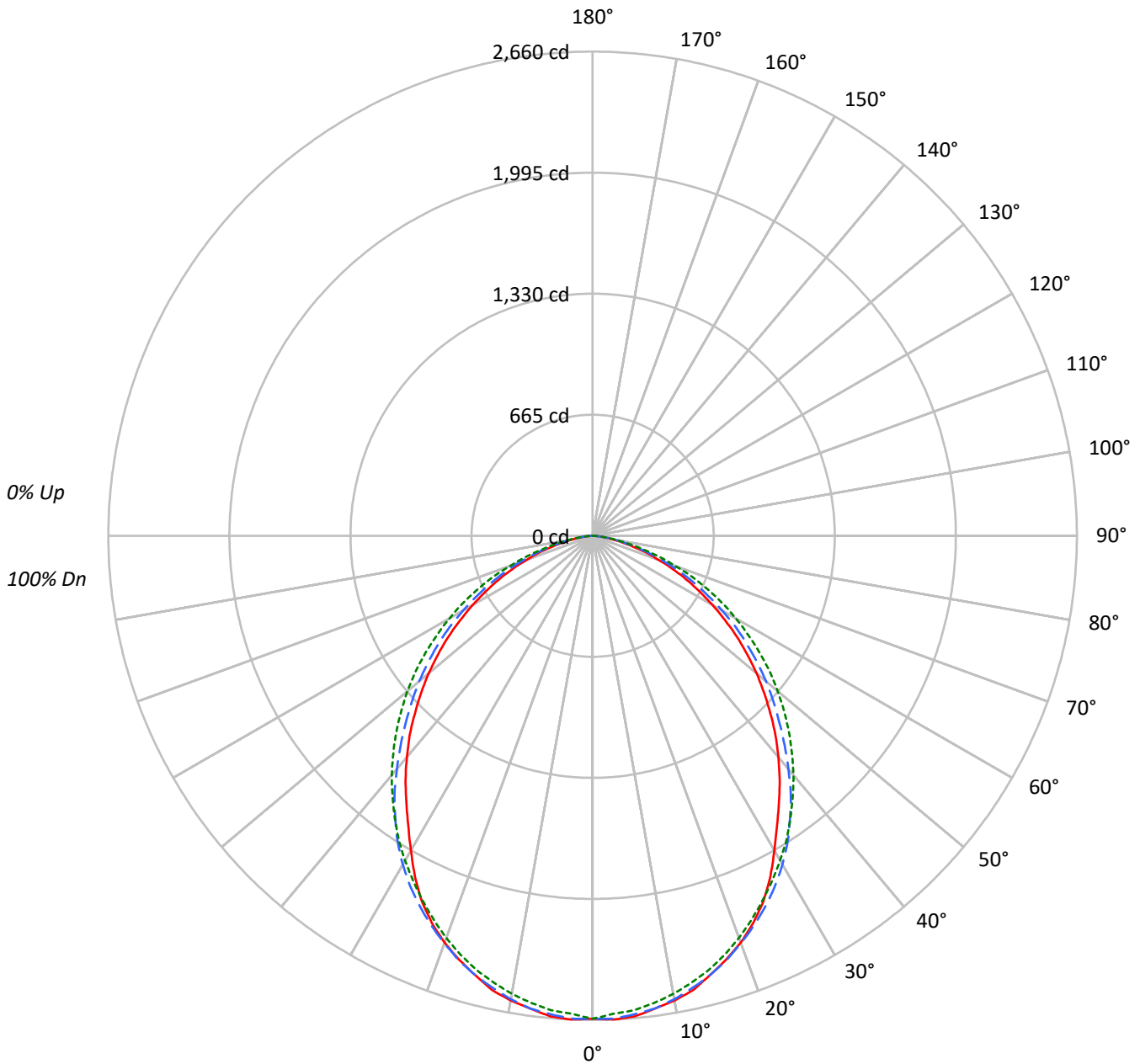
Lumens per Lamp: N/A
Luminaire Lumens: 6135.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	7140	7140	7140
5°	7159	7129	7068
10°	7083	7063	6983
15°	6957	6957	6878
20°	6810	6819	6731
25°	6586	6667	6561
30°	6201	6480	6401
35°	5860	6211	6222
40°	5575	5876	6030
45°	5256	5520	5803
50°	4920	5202	5556
55°	4538	4839	5256
60°	4087	4416	4888
65°	3608	3927	4446
70°	3007	3344	3777
75°	2363	2671	2957
80°	1691	1880	2084
85°	1102	1102	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.8	4.1
10°-20°	701.8	11.4
20°-30°	1025.5	16.7
30°-40°	1164.1	19.0
40°-50°	1123.8	18.3
50°-60°	927.0	15.1
60°-70°	617.3	10.1
70°-80°	276.2	4.5
80°-90°	49.4	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°	1977.1	32.2
0°-40°	3141.2	51.2
0°-60°	5192.0	84.6
0°-90°	6135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6135.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2653	2653	2653	2653	2653	
5°	2650	2649	2639	2625	2616	251
15°	2497	2503	2497	2486	2469	704
25°	2218	2235	2246	2229	2210	1016
35°	1784	1808	1891	1901	1894	1118
45°	1381	1405	1450	1517	1525	1066
55°	967	984	1032	1089	1120	863
65°	567	582	617	660	698	562
75°	227	240	257	269	284	249
85°	36	36	36	34	34	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2653.2	2653.2	2653.2	2653.2	2653.2
2.5°	2660.4	2661.4	2655.3	2639.0	2628.8
5°	2650.2	2649.2	2639.0	2624.7	2616.5
7.5°	2620.6	2622.7	2619.6	2599.2	2588.0
10°	2592.1	2593.1	2584.9	2568.6	2555.4
12.5°	2555.4	2554.4	2543.1	2535.0	2513.6
15°	2497.3	2503.4	2497.3	2486.1	2468.7
17.5°	2441.2	2441.2	2445.3	2425.9	2412.7
20°	2378.0	2381.1	2381.1	2365.8	2350.5
22.5°	2304.6	2313.8	2316.9	2300.6	2282.2
25°	2218.0	2235.3	2245.5	2229.2	2209.8
27.5°	2113.0	2139.5	2170.1	2157.9	2136.4
30°	1995.8	2034.5	2085.5	2075.3	2060.0
32.5°	1884.7	1923.4	1993.7	1989.7	1981.5
35°	1783.8	1808.2	1890.8	1901.0	1893.9
37.5°	1688.0	1710.4	1787.8	1811.3	1805.2
40°	1587.0	1611.5	1672.7	1714.5	1716.5
42.5°	1487.2	1510.6	1560.5	1620.7	1620.7
45°	1381.1	1404.6	1450.5	1516.7	1524.9
47.5°	1277.2	1301.6	1346.5	1412.7	1426.0
50°	1175.2	1197.7	1242.5	1306.7	1327.1
52.5°	1069.2	1093.7	1137.5	1196.7	1226.2
55°	967.3	983.6	1031.5	1088.6	1120.2
57.5°	861.3	876.6	930.6	979.5	1012.2
60°	759.4	778.7	820.5	870.5	908.2
62.5°	661.5	681.9	717.6	761.4	804.2
65°	566.7	582.0	616.7	660.5	698.2
67.5°	475.0	488.2	522.9	553.5	593.2
70°	382.2	399.6	425.0	454.6	480.1
72.5°	307.8	315.0	336.4	357.8	384.3
75°	227.3	239.5	256.9	269.1	284.4
77.5°	163.1	170.2	180.4	190.6	204.9
80°	109.1	112.1	121.3	123.3	134.5
82.5°	66.3	68.3	70.3	71.4	75.4
85°	35.7	35.7	35.7	33.6	33.6
87.5°	20.4	20.4	17.3	14.3	10.2
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)