

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: P555448

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-80-88-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: P555448
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-LD4-3HI-35-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

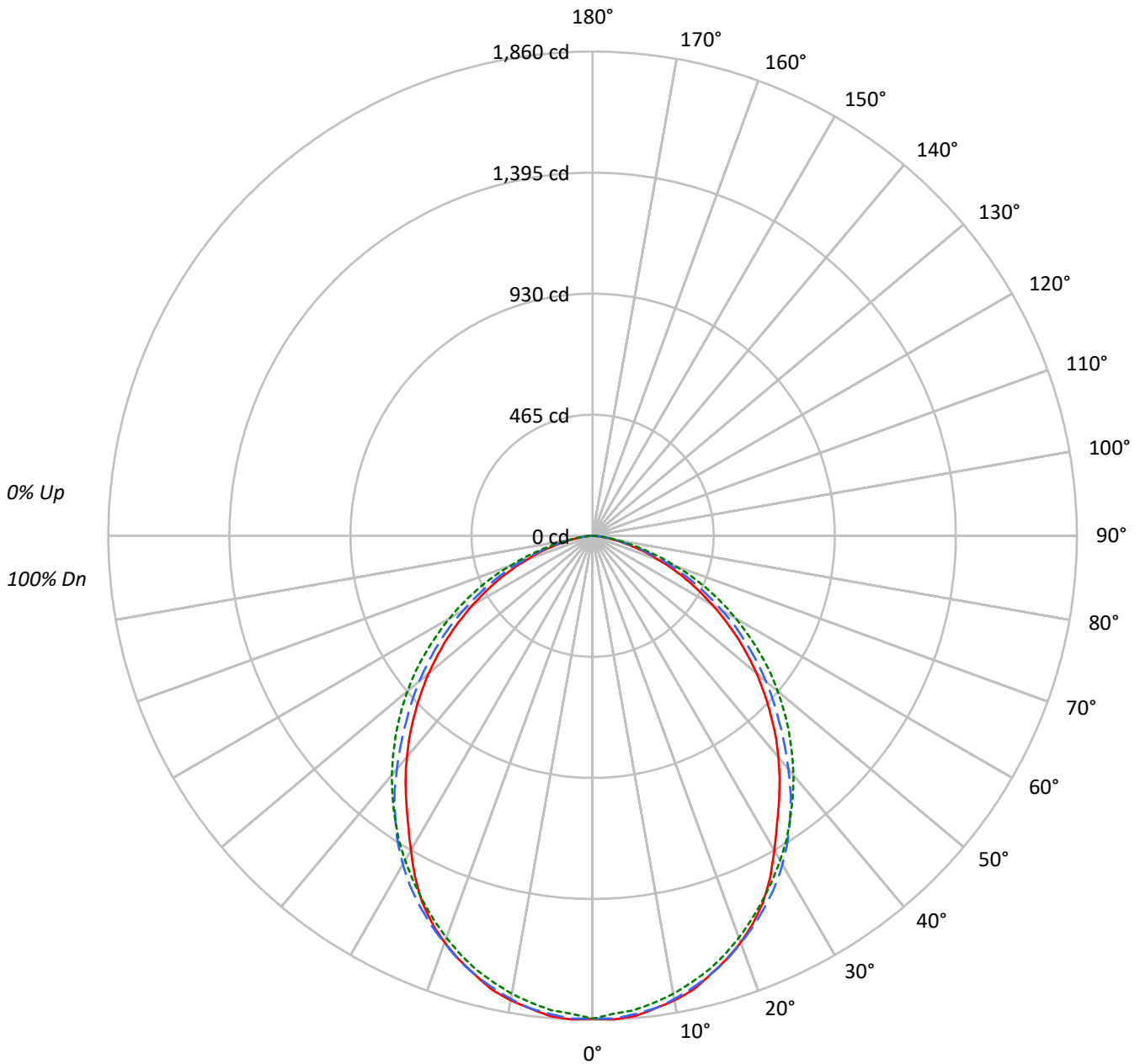
Lumens per Lamp: N/A
Luminaire Lumens: 4289.0 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
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					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°	9983	9983	9983
5°	10009	9967	9882
10°	9903	9876	9763
15°	9728	9728	9616
20°	9522	9534	9411
25°	9208	9322	9174
30°	8671	9061	8950
35°	8193	8685	8699
40°	7795	8216	8431
45°	7349	7718	8114
50°	6879	7273	7768
55°	6346	6766	7348
60°	5715	6174	6834
65°	5046	5490	6216
70°	4205	4677	5281
75°	3304	3735	4134
80°	2362	2628	2916
85°	1538	1538	1451



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	4.1
10°-20°	490.6	11.4
20°-30°	717.0	16.7
30°-40°	813.8	19.0
40°-50°	785.6	18.3
50°-60°	648.1	15.1
60°-70°	431.6	10.1
70°-80°	193.1	4.5
80°-90°	34.5	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°	1382.2	32.2
0°-40°	2196.0	51.2
0°-60°	3629.8	84.6
0°-90°	4289.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4289.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1855	1855	1855	1855	1855	
5°	1853	1852	1845	1835	1829	175
15°	1746	1750	1746	1738	1726	492
25°	1551	1563	1570	1558	1545	710
35°	1247	1264	1322	1329	1324	781
45°	966	982	1014	1060	1066	745
55°	676	688	721	761	783	604
65°	396	407	431	462	488	393
75°	159	168	180	188	199	174
85°	25	25	25	24	24	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1854.9	1854.9	1854.9	1854.9	1854.9
2.5°	1859.9	1860.6	1856.3	1844.9	1837.8
5°	1852.7	1852.0	1844.9	1834.9	1829.2
7.5°	1832.1	1833.5	1831.4	1817.1	1809.3
10°	1812.1	1812.8	1807.1	1795.7	1786.5
12.5°	1786.5	1785.8	1777.9	1772.2	1757.3
15°	1745.9	1750.1	1745.9	1738.0	1725.9
17.5°	1706.7	1706.7	1709.5	1696.0	1686.7
20°	1662.5	1664.6	1664.6	1653.9	1643.2
22.5°	1611.2	1617.6	1619.7	1608.3	1595.5
25°	1550.6	1562.7	1569.8	1558.4	1544.9
27.5°	1477.2	1495.7	1517.1	1508.6	1493.6
30°	1395.3	1422.3	1458.0	1450.8	1440.2
32.5°	1317.6	1344.7	1393.8	1391.0	1385.3
35°	1247.0	1264.1	1321.9	1329.0	1324.0
37.5°	1180.1	1195.7	1249.9	1266.3	1262.0
40°	1109.5	1126.6	1169.4	1198.6	1200.0
42.5°	1039.7	1056.1	1091.0	1133.0	1133.0
45°	965.6	982.0	1014.0	1060.3	1066.0
47.5°	892.9	910.0	941.3	987.7	996.9
50°	821.6	837.3	868.7	913.5	927.8
52.5°	747.5	764.6	795.3	836.6	857.3
55°	676.3	687.7	721.1	761.1	783.1
57.5°	602.1	612.8	650.6	684.8	707.6
60°	530.9	544.4	573.6	608.6	634.9
62.5°	462.5	476.7	501.7	532.3	562.2
65°	396.2	406.9	431.1	461.8	488.1
67.5°	332.1	341.3	365.6	386.9	414.7
70°	267.2	279.3	297.2	317.8	335.6
72.5°	215.2	220.2	235.2	250.1	268.6
75°	158.9	167.5	179.6	188.1	198.8
77.5°	114.0	119.0	126.1	133.3	143.2
80°	76.2	78.4	84.8	86.2	94.1
82.5°	46.3	47.7	49.2	49.9	52.7
85°	24.9	24.9	24.9	23.5	23.5
87.5°	14.3	14.3	12.1	10.0	7.1
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)