

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: P555456

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-84-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: P555456
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-81-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

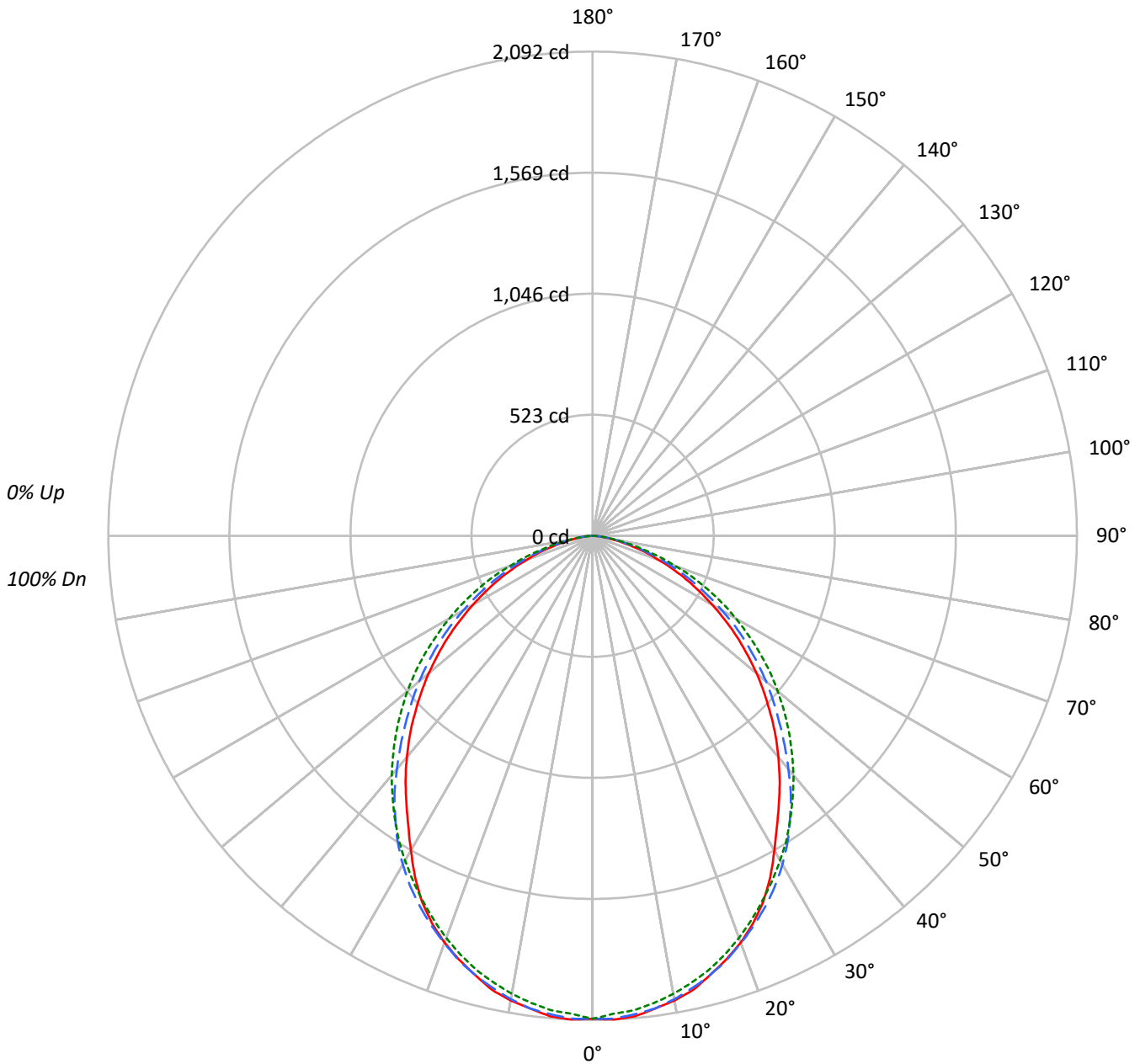
Lumens per Lamp: N/A
Luminaire Lumens: 4825.0 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555456

CATALOG NUMBER: FUSL-12-2-LD4-3HI-35-UNV-81-84-EDD-90

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°	11231	11231	11231
5°	11260	11213	11117
10°	11141	11110	10983
15°	10943	10943	10818
20°	10711	10725	10588
25°	10359	10487	10321
30°	9754	10193	10068
35°	9217	9770	9786
40°	8769	9242	9485
45°	8267	8682	9128
50°	7739	8182	8739
55°	7139	7613	8267
60°	6428	6946	7689
65°	5676	6176	6993
70°	4730	5260	5942
75°	3718	4200	4652
80°	2659	2957	3279
85°	1735	1735	1636



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.5	4.1
10°-20°	551.9	11.4
20°-30°	806.6	16.7
30°-40°	915.5	19.0
40°-50°	883.8	18.3
50°-60°	729.1	15.1
60°-70°	485.5	10.1
70°-80°	217.3	4.5
80°-90°	38.9	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°	1555.0	32.2
0°-40°	2470.5	51.2
0°-60°	4083.4	84.6
0°-90°	4825.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4825.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2087	2087	2087	2087	2087	
5°	2084	2084	2076	2064	2058	197
15°	1964	1969	1964	1955	1942	554
25°	1744	1758	1766	1753	1738	799
35°	1403	1422	1487	1495	1490	879
45°	1086	1105	1141	1193	1199	838
55°	761	774	811	856	881	679
65°	446	458	485	520	549	442
75°	179	188	202	212	224	195
85°	28	28	28	26	26	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2086.7	2086.7	2086.7	2086.7	2086.7
2.5°	2092.3	2093.1	2088.3	2075.5	2067.4
5°	2084.3	2083.5	2075.5	2064.2	2057.8
7.5°	2061.0	2062.6	2060.2	2044.2	2035.4
10°	2038.6	2039.4	2033.0	2020.2	2009.7
12.5°	2009.7	2008.9	2000.1	1993.7	1976.9
15°	1964.0	1968.8	1964.0	1955.2	1941.6
17.5°	1919.9	1919.9	1923.2	1907.9	1897.5
20°	1870.2	1872.6	1872.6	1860.6	1848.6
22.5°	1812.5	1819.7	1822.1	1809.3	1794.9
25°	1744.4	1758.0	1766.0	1753.2	1738.0
27.5°	1661.8	1682.7	1706.7	1697.1	1680.3
30°	1569.6	1600.1	1640.2	1632.2	1620.1
32.5°	1482.2	1512.7	1568.0	1564.8	1558.4
35°	1402.9	1422.1	1487.1	1495.1	1489.5
37.5°	1327.5	1345.2	1406.1	1424.5	1419.7
40°	1248.2	1267.4	1315.5	1348.4	1350.0
42.5°	1169.6	1188.0	1227.3	1274.6	1274.6
45°	1086.2	1104.7	1140.7	1192.9	1199.3
47.5°	1004.5	1023.7	1059.0	1111.1	1121.5
50°	924.3	941.9	977.2	1027.7	1043.7
52.5°	840.9	860.2	894.6	941.1	964.4
55°	760.8	773.6	811.3	856.2	881.0
57.5°	677.4	689.4	731.9	770.4	796.0
60°	597.2	612.5	645.3	684.6	714.3
62.5°	520.3	536.3	564.4	598.8	632.5
65°	445.7	457.7	485.0	519.5	549.1
67.5°	373.6	384.0	411.2	435.3	466.6
70°	300.6	314.2	334.3	357.5	377.6
72.5°	242.1	247.7	264.5	281.4	302.2
75°	178.8	188.4	202.0	211.6	223.7
77.5°	128.3	133.9	141.9	149.9	161.1
80°	85.8	88.2	95.4	97.0	105.8
82.5°	52.1	53.7	55.3	56.1	59.3
85°	28.1	28.1	28.1	26.5	26.5
87.5°	16.0	16.0	13.6	11.2	8.0
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)