

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: P555462

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-81-87-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: P555462
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-81-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

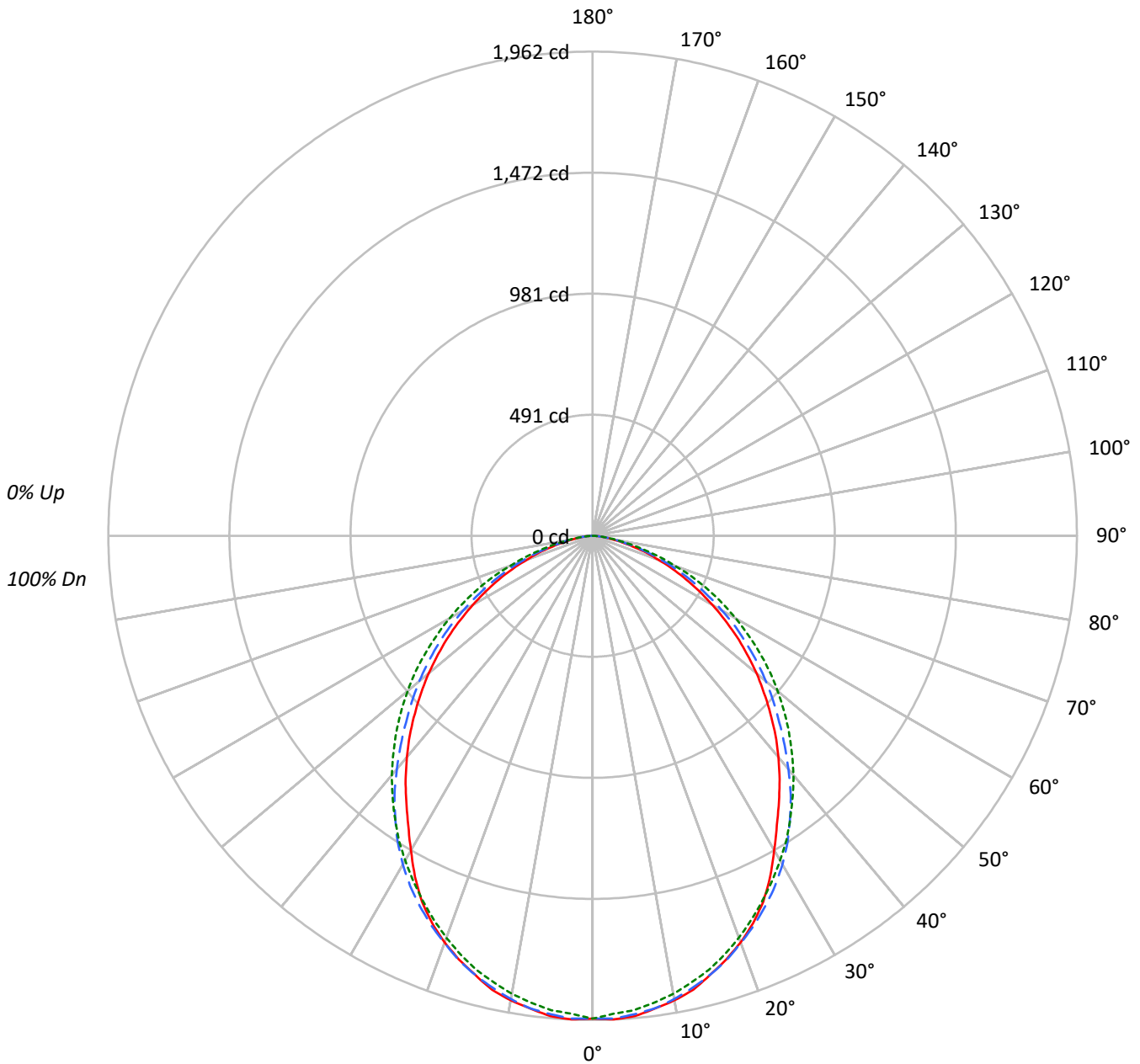
Lumens per Lamp: N/A
Luminaire Lumens: 4524.0 lumens
Efficiency: N/A
Efficacy: 69.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10530	10530	10530
5°	10558	10513	10424
10°	10446	10417	10298
15°	10260	10260	10143
20°	10043	10056	9927
25°	9713	9833	9677
30°	9146	9557	9441
35°	8642	9161	9175
40°	8222	8665	8893
45°	7752	8141	8559
50°	7256	7671	8194
55°	6693	7138	7750
60°	6028	6513	7209
65°	5322	5791	6557
70°	4436	4932	5570
75°	3485	3938	4361
80°	2492	2771	3075
85°	1624	1624	1531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	184.2	4.1
10°-20°	517.5	11.4
20°-30°	756.2	16.7
30°-40°	858.4	19.0
40°-50°	828.7	18.3
50°-60°	683.6	15.1
60°-70°	455.2	10.1
70°-80°	203.7	4.5
80°-90°	36.4	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°	1458.0	32.2
0°-40°	2316.4	51.2
0°-60°	3828.6	84.6
0°-90°	4524.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4524.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1956	1956	1956	1956	1956	
5°	1954	1954	1946	1936	1930	185
15°	1842	1846	1842	1833	1820	519
25°	1636	1648	1656	1644	1630	749
35°	1315	1333	1394	1402	1396	824
45°	1018	1036	1070	1118	1124	786
55°	713	725	761	803	826	637
65°	418	429	455	487	515	414
75°	168	177	189	198	210	183
85°	26	26	26	25	25	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1956.5	1956.5	1956.5	1956.5	1956.5
2.5°	1961.8	1962.5	1958.0	1946.0	1938.5
5°	1954.3	1953.5	1946.0	1935.5	1929.5
7.5°	1932.5	1934.0	1931.7	1916.7	1908.4
10°	1911.4	1912.2	1906.2	1894.1	1884.4
12.5°	1884.4	1883.6	1875.3	1869.3	1853.5
15°	1841.5	1846.0	1841.5	1833.2	1820.5
17.5°	1800.2	1800.2	1803.2	1788.9	1779.1
20°	1753.6	1755.8	1755.8	1744.6	1733.3
22.5°	1699.5	1706.2	1708.5	1696.4	1682.9
25°	1635.6	1648.3	1655.9	1643.8	1629.6
27.5°	1558.1	1577.7	1600.2	1591.2	1575.4
30°	1471.7	1500.3	1537.9	1530.3	1519.1
32.5°	1389.8	1418.3	1470.2	1467.2	1461.2
35°	1315.4	1333.4	1394.3	1401.8	1396.5
37.5°	1244.7	1261.2	1318.4	1335.7	1331.2
40°	1170.3	1188.3	1233.4	1264.3	1265.8
42.5°	1096.6	1113.9	1150.8	1195.1	1195.1
45°	1018.5	1035.8	1069.6	1118.4	1124.5
47.5°	941.8	959.8	992.9	1041.8	1051.5
50°	866.6	883.2	916.2	963.6	978.6
52.5°	788.5	806.5	838.8	882.4	904.2
55°	713.3	725.3	760.7	802.7	826.0
57.5°	635.1	646.4	686.2	722.3	746.4
60°	560.0	574.3	605.1	641.9	669.7
62.5°	487.8	502.8	529.2	561.5	593.0
65°	417.9	429.2	454.7	487.1	514.9
67.5°	350.3	360.0	385.6	408.1	437.5
70°	281.9	294.6	313.4	335.2	354.0
72.5°	227.0	232.3	248.0	263.8	283.4
75°	167.6	176.6	189.4	198.4	209.7
77.5°	120.3	125.5	133.0	140.6	151.1
80°	80.4	82.7	89.4	90.9	99.2
82.5°	48.9	50.4	51.9	52.6	55.6
85°	26.3	26.3	26.3	24.8	24.8
87.5°	15.0	15.0	12.8	10.5	7.5
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)