

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: P555478

Luminaire Tested: **FUSL-12-2-LD4-3HI-35-UNV-82-87-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: P555478
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-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 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

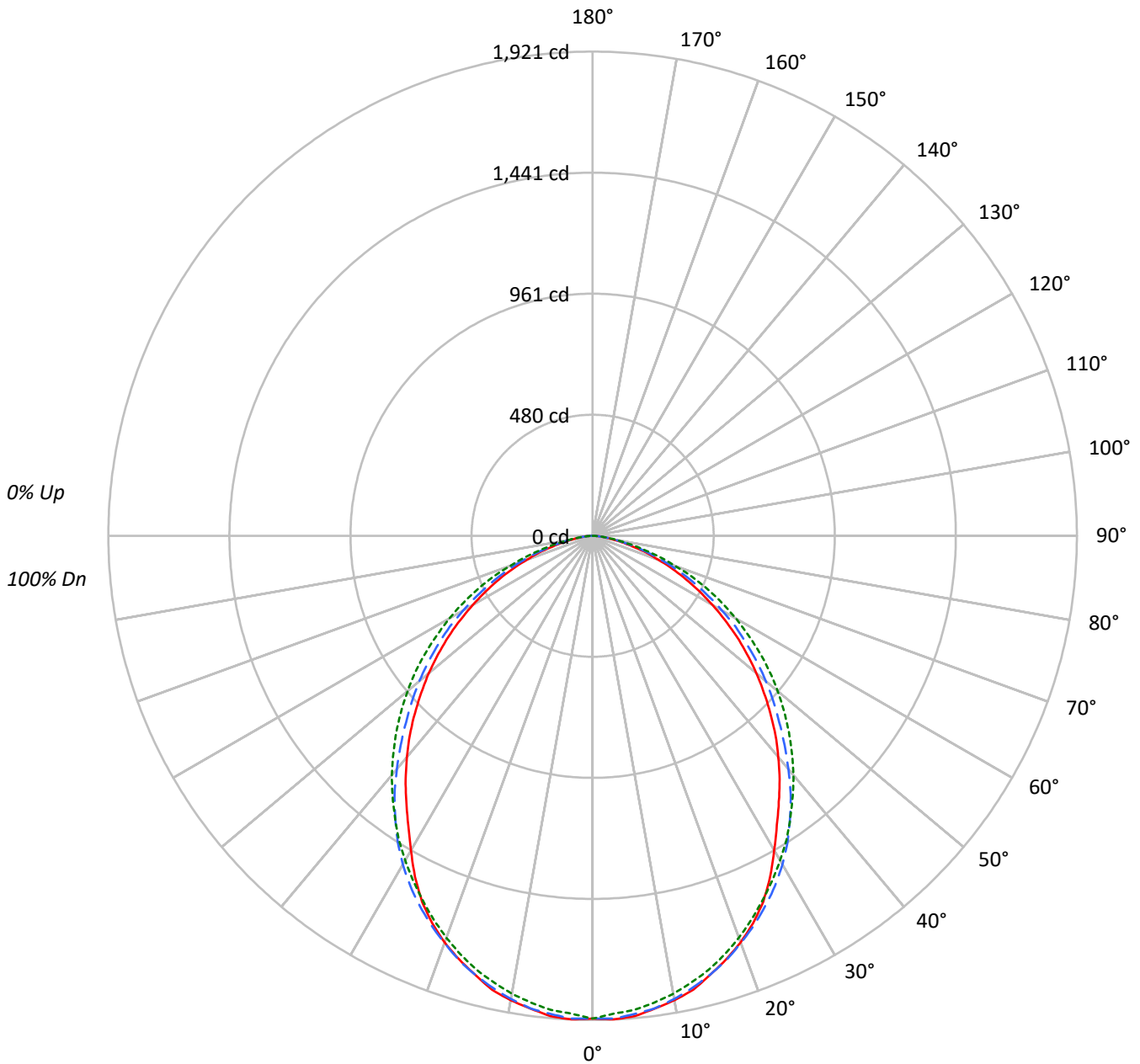
Lumens per Lamp: N/A
Luminaire Lumens: 4429.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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									
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°	10309	10309	10309
5°	10336	10292	10205
10°	10227	10198	10082
15°	10045	10045	9930
20°	9832	9845	9719
25°	9508	9627	9473
30°	8954	9357	9242
35°	8460	8968	8983
40°	8049	8483	8706
45°	7589	7970	8378
50°	7104	7510	8022
55°	6552	6988	7588
60°	5901	6377	7057
65°	5210	5670	6420
70°	4342	4829	5454
75°	3412	3855	4269
80°	2439	2715	3009
85°	1593	1593	1501



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.3	4.1
10°-20°	506.6	11.4
20°-30°	740.4	16.7
30°-40°	840.4	19.0
40°-50°	811.3	18.3
50°-60°	669.2	15.1
60°-70°	445.7	10.1
70°-80°	199.4	4.5
80°-90°	35.7	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°	1427.3	32.2
0°-40°	2267.7	51.2
0°-60°	3748.2	84.6
0°-90°	4429.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4429.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1915	1915	1915	1915	1915	
5°	1913	1912	1905	1895	1889	181
15°	1803	1807	1803	1795	1782	508
25°	1601	1614	1621	1609	1595	733
35°	1288	1305	1365	1372	1367	807
45°	997	1014	1047	1095	1101	769
55°	698	710	745	786	809	623
65°	409	420	445	477	504	406
75°	164	173	185	194	205	179
85°	26	26	26	24	24	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1915.4	1915.4	1915.4	1915.4	1915.4
2.5°	1920.6	1921.3	1916.9	1905.1	1897.8
5°	1913.2	1912.5	1905.1	1894.8	1888.9
7.5°	1891.9	1893.4	1891.1	1876.4	1868.3
10°	1871.3	1872.0	1866.1	1854.4	1844.8
12.5°	1844.8	1844.1	1836.0	1830.1	1814.6
15°	1802.8	1807.3	1802.8	1794.7	1782.2
17.5°	1762.4	1762.4	1765.3	1751.3	1741.8
20°	1716.7	1719.0	1719.0	1707.9	1696.9
22.5°	1663.8	1670.4	1672.6	1660.8	1647.6
25°	1601.2	1613.7	1621.1	1609.3	1595.3
27.5°	1525.4	1544.6	1566.6	1557.8	1542.4
30°	1440.8	1468.8	1505.6	1498.2	1487.2
32.5°	1360.6	1388.6	1439.3	1436.4	1430.5
35°	1287.7	1305.4	1365.0	1372.4	1367.2
37.5°	1218.6	1234.8	1290.7	1307.6	1303.2
40°	1145.7	1163.4	1207.5	1237.7	1239.2
42.5°	1073.6	1090.5	1126.6	1170.0	1170.0
45°	997.1	1014.0	1047.1	1095.0	1100.8
47.5°	922.0	939.7	972.1	1019.9	1029.5
50°	848.4	864.6	897.0	943.4	958.1
52.5°	771.9	789.6	821.2	863.9	885.2
55°	698.3	710.1	744.7	785.9	808.7
57.5°	621.8	632.8	671.8	707.2	730.7
60°	548.2	562.2	592.4	628.4	655.6
62.5°	477.6	492.3	518.0	549.7	580.6
65°	409.1	420.2	445.2	476.8	504.1
67.5°	342.9	352.5	377.5	399.6	428.3
70°	275.9	288.5	306.9	328.2	346.6
72.5°	222.2	227.4	242.8	258.3	277.4
75°	164.1	172.9	185.4	194.3	205.3
77.5°	117.7	122.9	130.2	137.6	147.9
80°	78.7	80.9	87.6	89.0	97.1
82.5°	47.8	49.3	50.8	51.5	54.5
85°	25.8	25.8	25.8	24.3	24.3
87.5°	14.7	14.7	12.5	10.3	7.4
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)