

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: P555394

Luminaire Tested: **FUSL-12-2-LD4-3HI-30-UNV-81-85-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: P555394
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-30-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

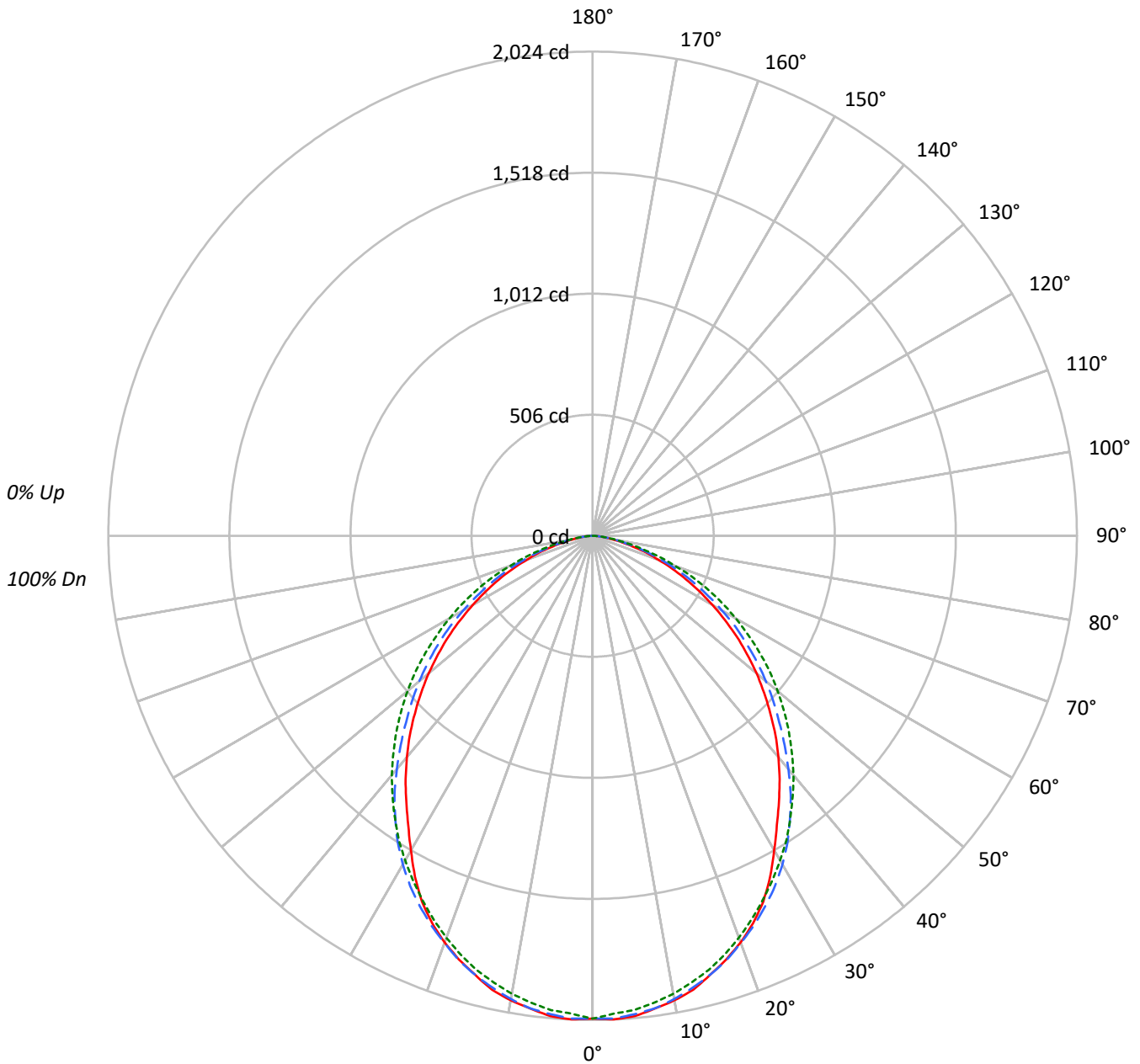
Lumens per Lamp: N/A
Luminaire Lumens: 4667.0 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 64.8
Input Voltage (V): NR
Input Current (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					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	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°	10863	10863	10863
5°	10891	10846	10753
10°	10776	10746	10623
15°	10585	10585	10464
20°	10361	10374	10241
25°	10020	10144	9983
30°	9435	9859	9739
35°	8915	9451	9466
40°	8482	8939	9174
45°	7997	8398	8829
50°	7485	7914	8453
55°	6905	7363	7996
60°	6218	6719	7437
65°	5490	5974	6763
70°	4576	5087	5747
75°	3595	4063	4498
80°	2572	2861	3174
85°	1673	1673	1581



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.0	4.1
10°-20°	533.9	11.4
20°-30°	780.1	16.7
30°-40°	885.6	19.0
40°-50°	854.9	18.3
50°-60°	705.2	15.1
60°-70°	469.6	10.1
70°-80°	210.1	4.5
80°-90°	37.6	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°	1504.0	32.2
0°-40°	2389.6	51.2
0°-60°	3949.7	84.6
0°-90°	4667.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4667.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2018	2018	2018	2018	2018	
5°	2016	2015	2008	1997	1990	191
15°	1900	1904	1900	1891	1878	536
25°	1687	1700	1708	1696	1681	773
35°	1357	1376	1438	1446	1441	850
45°	1051	1068	1103	1154	1160	811
55°	736	748	785	828	852	657
65°	431	443	469	502	531	427
75°	173	182	195	205	216	189
85°	27	27	27	26	26	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2018.4	2018.4	2018.4	2018.4	2018.4
2.5°	2023.8	2024.6	2019.9	2007.5	1999.7
5°	2016.0	2015.3	2007.5	1996.6	1990.4
7.5°	1993.5	1995.1	1992.8	1977.3	1968.7
10°	1971.8	1972.6	1966.4	1954.0	1943.9
12.5°	1943.9	1943.1	1934.6	1928.4	1912.1
15°	1899.7	1904.4	1899.7	1891.2	1878.0
17.5°	1857.1	1857.1	1860.2	1845.4	1835.4
20°	1809.0	1811.3	1811.3	1799.7	1788.1
22.5°	1753.2	1760.1	1762.5	1750.1	1736.1
25°	1687.3	1700.4	1708.2	1695.8	1681.1
27.5°	1607.4	1627.6	1650.8	1641.5	1625.2
30°	1518.2	1547.7	1586.5	1578.7	1567.1
32.5°	1433.7	1463.2	1516.7	1513.6	1507.4
35°	1356.9	1375.6	1438.4	1446.1	1440.7
37.5°	1284.1	1301.1	1360.0	1377.9	1373.2
40°	1207.3	1225.9	1272.4	1304.2	1305.8
42.5°	1131.3	1149.1	1187.1	1232.9	1232.9
45°	1050.7	1068.5	1103.4	1153.8	1160.0
47.5°	971.6	990.2	1024.3	1074.7	1084.8
50°	894.0	911.1	945.2	994.1	1009.6
52.5°	813.4	832.0	865.3	910.3	932.8
55°	735.9	748.3	784.7	828.1	852.2
57.5°	655.2	666.8	707.9	745.2	770.0
60°	577.7	592.4	624.2	662.2	690.9
62.5°	503.2	518.7	545.9	579.2	611.8
65°	431.1	442.8	469.1	502.5	531.1
67.5°	361.3	371.4	397.8	421.0	451.3
70°	290.8	304.0	323.3	345.8	365.2
72.5°	234.2	239.6	255.9	272.2	292.3
75°	172.9	182.2	195.4	204.7	216.3
77.5°	124.1	129.5	137.2	145.0	155.9
80°	83.0	85.3	92.3	93.8	102.4
82.5°	50.4	52.0	53.5	54.3	57.4
85°	27.1	27.1	27.1	25.6	25.6
87.5°	15.5	15.5	13.2	10.9	7.8
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)