

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: P555542

Luminaire Tested: **FUSL-12-2-LD4-3HI-40-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: P555542
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

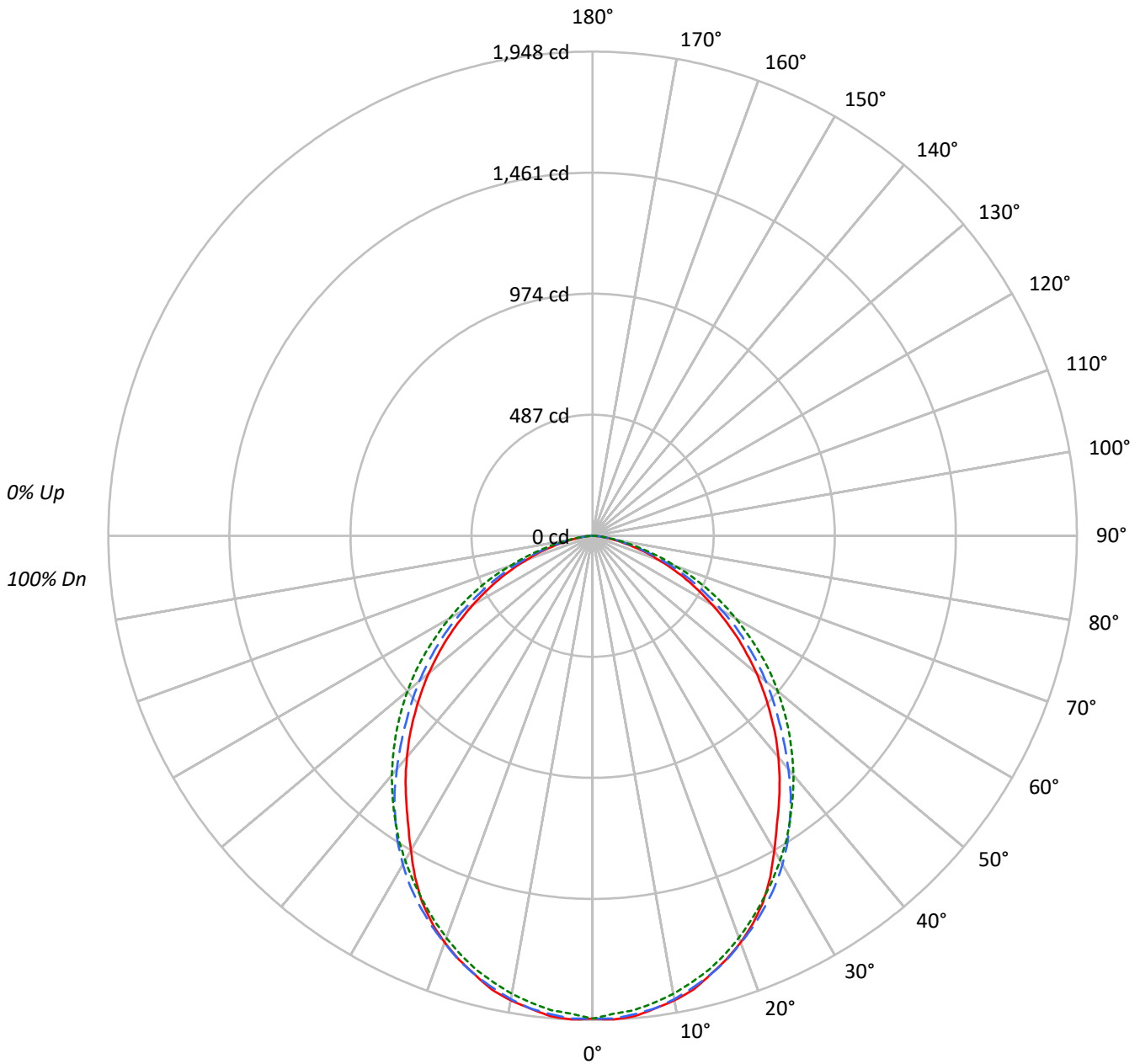
Lumens per Lamp: N/A
Luminaire Lumens: 4492.0 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	10456	10456	10456
5°	10483	10439	10350
10°	10372	10344	10225
15°	10188	10188	10072
20°	9972	9985	9857
25°	9644	9763	9608
30°	9081	9490	9373
35°	8581	9096	9111
40°	8164	8604	8830
45°	7697	8083	8498
50°	7205	7618	8136
55°	6646	7087	7696
60°	5985	6467	7158
65°	5285	5750	6510
70°	4404	4897	5531
75°	3460	3911	4329
80°	2476	2752	3053
85°	1612	1612	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.9	4.1
10°-20°	513.8	11.4
20°-30°	750.9	16.7
30°-40°	852.3	19.0
40°-50°	822.8	18.3
50°-60°	678.8	15.1
60°-70°	452.0	10.1
70°-80°	202.3	4.5
80°-90°	36.2	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°	1447.6	32.2
0°-40°	2300.0	51.2
0°-60°	3801.5	84.6
0°-90°	4492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4492.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1943	1943	1943	1943	1943	
5°	1940	1940	1932	1922	1916	184
15°	1828	1833	1828	1820	1808	515
25°	1624	1637	1644	1632	1618	744
35°	1306	1324	1384	1392	1387	818
45°	1011	1028	1062	1110	1116	780
55°	708	720	755	797	820	632
65°	415	426	452	484	511	411
75°	166	175	188	197	208	182
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°	1942.7	1942.7	1942.7	1942.7	1942.7
2.5°	1947.9	1948.6	1944.2	1932.2	1924.8
5°	1940.4	1939.7	1932.2	1921.8	1915.8
7.5°	1918.8	1920.3	1918.0	1903.1	1894.9
10°	1897.9	1898.6	1892.7	1880.7	1871.0
12.5°	1871.0	1870.3	1862.1	1856.1	1840.4
15°	1828.5	1833.0	1828.5	1820.3	1807.6
17.5°	1787.4	1787.4	1790.4	1776.2	1766.5
20°	1741.2	1743.4	1743.4	1732.2	1721.0
22.5°	1687.4	1694.1	1696.4	1684.4	1671.0
25°	1624.0	1636.7	1644.1	1632.2	1618.0
27.5°	1547.1	1566.5	1588.9	1580.0	1564.3
30°	1461.3	1489.7	1527.0	1519.5	1508.3
32.5°	1379.9	1408.3	1459.8	1456.8	1450.8
35°	1306.1	1324.0	1384.4	1391.9	1386.7
37.5°	1235.9	1252.3	1309.0	1326.2	1321.7
40°	1162.0	1179.9	1224.7	1255.3	1256.8
42.5°	1088.9	1106.0	1142.6	1186.7	1186.7
45°	1011.3	1028.4	1062.0	1110.5	1116.5
47.5°	935.1	953.1	985.9	1034.4	1044.1
50°	860.5	876.9	909.8	956.8	971.7
52.5°	782.9	800.8	832.9	876.2	897.8
55°	708.3	720.2	755.3	797.1	820.2
57.5°	630.6	641.8	681.4	717.2	741.1
60°	556.0	570.2	600.8	637.4	665.0
62.5°	484.4	499.3	525.4	557.5	588.8
65°	415.0	426.1	451.5	483.6	511.2
67.5°	347.8	357.5	382.9	405.3	434.4
70°	279.9	292.6	311.2	332.9	351.5
72.5°	225.4	230.6	246.3	262.0	281.4
75°	166.4	175.4	188.1	197.0	208.2
77.5°	119.4	124.6	132.1	139.6	150.0
80°	79.9	82.1	88.8	90.3	98.5
82.5°	48.5	50.0	51.5	52.2	55.2
85°	26.1	26.1	26.1	24.6	24.6
87.5°	14.9	14.9	12.7	10.4	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)