

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: P554112

Luminaire Tested: **FUSL-12-2-LD4-1LO-30-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: P554112
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-LD4-1LO-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

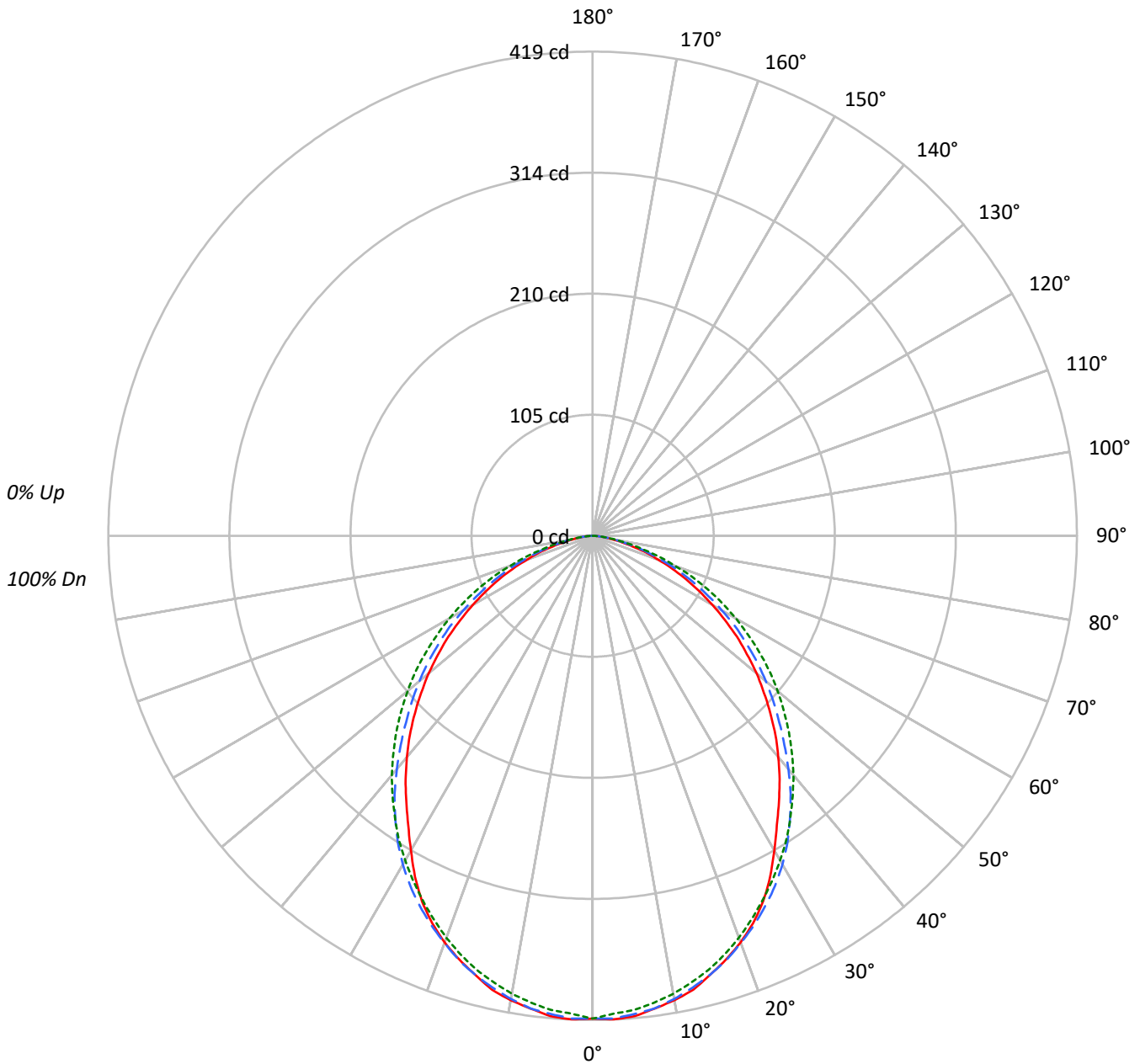
Lumens per Lamp: N/A
Luminaire Lumens: 966.0 lumens
Efficiency: N/A
Efficacy: 82.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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°	2249	2249	2249
5°	2254	2245	2226
10°	2230	2224	2199
15°	2191	2191	2166
20°	2144	2147	2120
25°	2074	2100	2067
30°	1953	2041	2016
35°	1846	1956	1959
40°	1756	1851	1899
45°	1655	1738	1827
50°	1550	1638	1750
55°	1429	1524	1655
60°	1287	1391	1539
65°	1136	1237	1400
70°	947	1053	1190
75°	744	840	932
80°	533	592	657
85°	346	346	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.3	4.1
10°-20°	110.5	11.4
20°-30°	161.5	16.7
30°-40°	183.3	19.0
40°-50°	176.9	18.3
50°-60°	146.0	15.1
60°-70°	97.2	10.1
70°-80°	43.5	4.5
80°-90°	7.8	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°	311.3	32.2
0°-40°	494.6	51.2
0°-60°	817.5	84.6
0°-90°	966.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	966.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	418	418	418	418	418	
5°	417	417	416	413	412	39
15°	393	394	393	391	389	111
25°	349	352	354	351	348	160
35°	281	285	298	299	298	176
45°	218	221	228	239	240	168
55°	152	155	162	171	176	136
65°	89	92	97	104	110	88
75°	36	38	40	42	45	39
85°	6	6	6	5	5	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	417.8	417.8	417.8	417.8	417.8
2.5°	418.9	419.1	418.1	415.5	413.9
5°	417.3	417.1	415.5	413.3	412.0
7.5°	412.6	413.0	412.5	409.3	407.5
10°	408.1	408.3	407.0	404.4	402.4
12.5°	402.4	402.2	400.4	399.2	395.8
15°	393.2	394.2	393.2	391.4	388.7
17.5°	384.4	384.4	385.0	382.0	379.9
20°	374.4	374.9	374.9	372.5	370.1
22.5°	362.9	364.3	364.8	362.2	359.3
25°	349.2	352.0	353.6	351.0	348.0
27.5°	332.7	336.9	341.7	339.8	336.4
30°	314.3	320.3	328.4	326.8	324.4
32.5°	296.8	302.9	313.9	313.3	312.0
35°	280.9	284.7	297.7	299.3	298.2
37.5°	265.8	269.3	281.5	285.2	284.2
40°	249.9	253.7	263.4	270.0	270.3
42.5°	234.2	237.9	245.7	255.2	255.2
45°	217.5	221.2	228.4	238.8	240.1
47.5°	201.1	205.0	212.0	222.4	224.5
50°	185.1	188.6	195.6	205.8	209.0
52.5°	168.4	172.2	179.1	188.4	193.1
55°	152.3	154.9	162.4	171.4	176.4
57.5°	135.6	138.0	146.5	154.2	159.4
60°	119.6	122.6	129.2	137.1	143.0
62.5°	104.2	107.4	113.0	119.9	126.6
65°	89.2	91.6	97.1	104.0	109.9
67.5°	74.8	76.9	82.3	87.1	93.4
70°	60.2	62.9	66.9	71.6	75.6
72.5°	48.5	49.6	53.0	56.3	60.5
75°	35.8	37.7	40.4	42.4	44.8
77.5°	25.7	26.8	28.4	30.0	32.3
80°	17.2	17.7	19.1	19.4	21.2
82.5°	10.4	10.8	11.1	11.2	11.9
85°	5.6	5.6	5.6	5.3	5.3
87.5°	3.2	3.2	2.7	2.2	1.6
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)