

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: P554208

Luminaire Tested: **FUSL-12-2-LD4-1LO-35-UNV-93-84-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: P554208
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-35-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

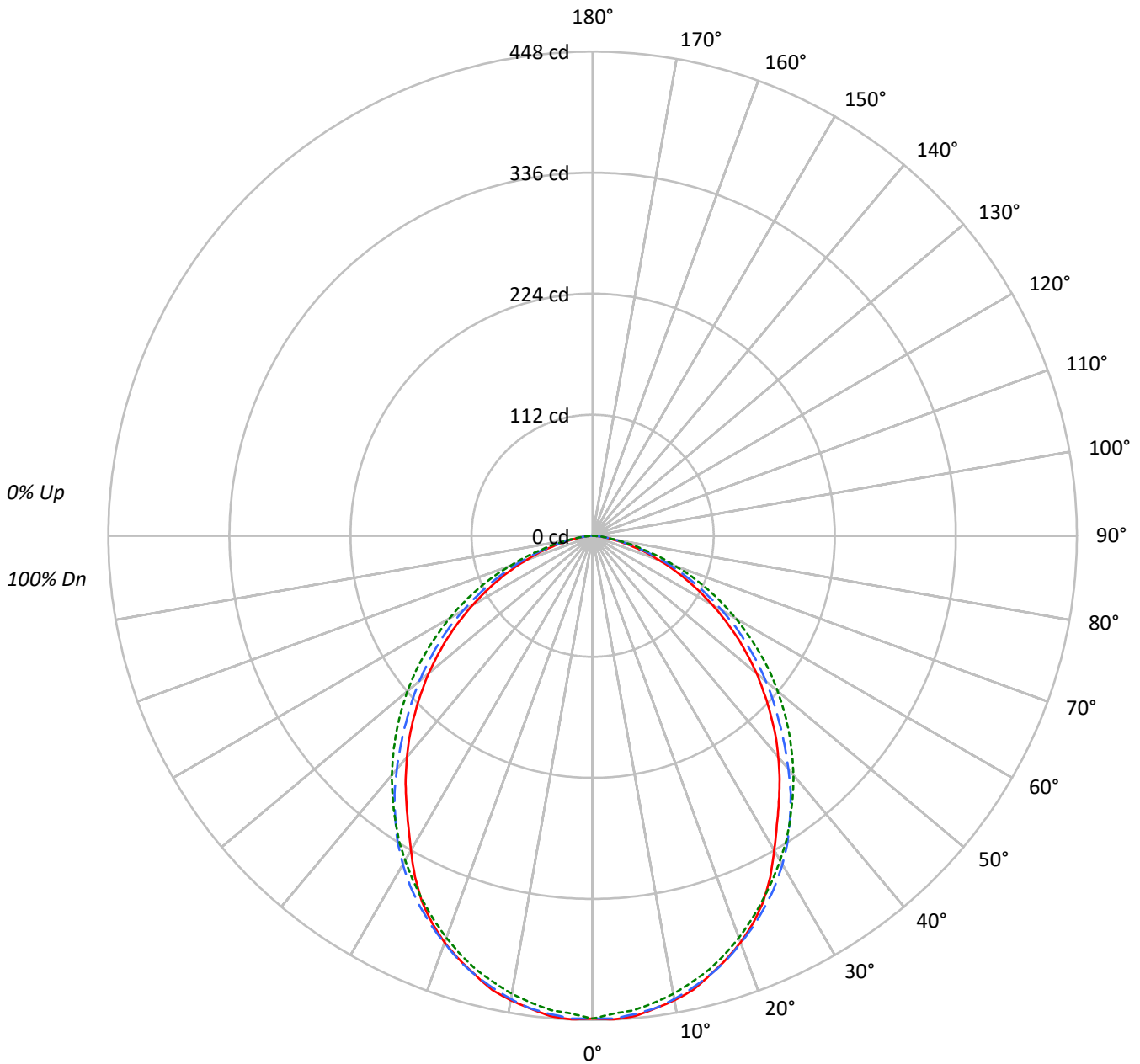
Lumens per Lamp: N/A
Luminaire Lumens: 1033.0 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 11.7
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									
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°	2404	2404	2404
5°	2411	2400	2380
10°	2385	2378	2352
15°	2343	2343	2316
20°	2293	2296	2267
25°	2218	2245	2210
30°	2088	2182	2156
35°	1973	2092	2095
40°	1877	1978	2030
45°	1770	1859	1955
50°	1657	1752	1871
55°	1529	1630	1770
60°	1377	1488	1646
65°	1215	1322	1498
70°	1013	1127	1271
75°	796	900	996
80°	570	632	704
85°	371	371	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	4.1
10°-20°	118.2	11.4
20°-30°	172.7	16.7
30°-40°	196.0	19.0
40°-50°	189.2	18.3
50°-60°	156.1	15.1
60°-70°	103.9	10.1
70°-80°	46.5	4.5
80°-90°	8.3	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°	332.9	32.2
0°-40°	528.9	51.2
0°-60°	874.2	84.6
0°-90°	1033.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1033.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	447	447	447	447	447	
5°	446	446	444	442	441	42
15°	420	422	420	419	416	119
25°	374	376	378	375	372	171
35°	300	304	318	320	319	188
45°	233	236	244	255	257	179
55°	163	166	174	183	189	145
65°	95	98	104	111	118	95
75°	38	40	43	45	48	42
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	446.7	446.7	446.7	446.7	446.7
2.5°	447.9	448.1	447.1	444.3	442.6
5°	446.2	446.1	444.3	441.9	440.6
7.5°	441.3	441.6	441.1	437.6	435.8
10°	436.4	436.6	435.2	432.5	430.3
12.5°	430.3	430.1	428.2	426.8	423.2
15°	420.5	421.5	420.5	418.6	415.7
17.5°	411.0	411.0	411.7	408.5	406.2
20°	400.4	400.9	400.9	398.3	395.8
22.5°	388.0	389.6	390.1	387.4	384.3
25°	373.5	376.4	378.1	375.3	372.1
27.5°	355.8	360.2	365.4	363.3	359.7
30°	336.0	342.6	351.1	349.4	346.9
32.5°	317.3	323.9	335.7	335.0	333.6
35°	300.3	304.5	318.4	320.1	318.9
37.5°	284.2	288.0	301.0	305.0	304.0
40°	267.2	271.3	281.6	288.7	289.0
42.5°	250.4	254.4	262.8	272.9	272.9
45°	232.6	236.5	244.2	255.4	256.8
47.5°	215.0	219.2	226.7	237.9	240.1
50°	197.9	201.7	209.2	220.0	223.5
52.5°	180.0	184.2	191.5	201.5	206.5
55°	162.9	165.6	173.7	183.3	188.6
57.5°	145.0	147.6	156.7	164.9	170.4
60°	127.9	131.1	138.2	146.6	152.9
62.5°	111.4	114.8	120.8	128.2	135.4
65°	95.4	98.0	103.8	111.2	117.6
67.5°	80.0	82.2	88.0	93.2	99.9
70°	64.4	67.3	71.6	76.5	80.8
72.5°	51.8	53.0	56.6	60.2	64.7
75°	38.3	40.3	43.3	45.3	47.9
77.5°	27.5	28.7	30.4	32.1	34.5
80°	18.4	18.9	20.4	20.8	22.7
82.5°	11.2	11.5	11.8	12.0	12.7
85°	6.0	6.0	6.0	5.7	5.7
87.5°	3.4	3.4	2.9	2.4	1.7
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)