

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: P554936

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-80-88-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: P554936
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-LD4-2LO-35-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

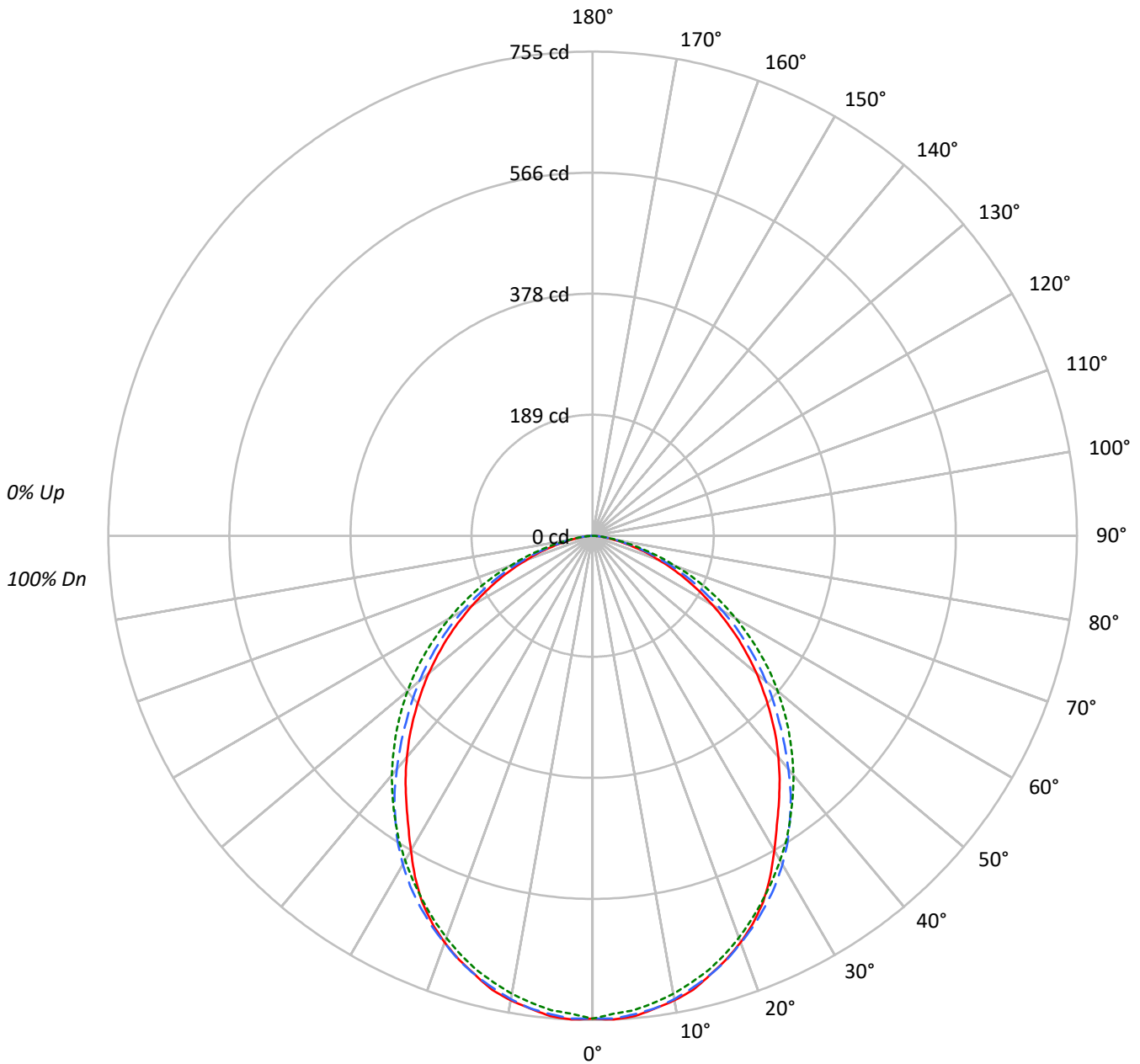
Lumens per Lamp: N/A
Luminaire Lumens: 1741.0 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	4052	4052	4052
5°	4063	4046	4011
10°	4020	4009	3963
15°	3949	3949	3904
20°	3865	3870	3820
25°	3738	3784	3724
30°	3520	3678	3633
35°	3326	3526	3531
40°	3164	3335	3422
45°	2983	3133	3293
50°	2792	2952	3153
55°	2576	2746	2983
60°	2320	2507	2774
65°	2048	2229	2523
70°	1707	1898	2143
75°	1341	1516	1678
80°	961	1066	1184
85°	624	624	587



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.9	4.1
10°-20°	199.2	11.4
20°-30°	291.0	16.7
30°-40°	330.3	19.0
40°-50°	318.9	18.3
50°-60°	263.1	15.1
60°-70°	175.2	10.1
70°-80°	78.4	4.5
80°-90°	14.0	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°	561.1	32.2
0°-40°	891.4	51.2
0°-60°	1473.4	84.6
0°-90°	1741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	753	753	753	753	753	
5°	752	752	749	745	742	71
15°	709	710	709	706	701	200
25°	629	634	637	633	627	288
35°	506	513	537	540	537	317
45°	392	399	412	430	433	302
55°	274	279	293	309	318	245
65°	161	165	175	187	198	159
75°	64	68	73	76	81	71
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	752.9	752.9	752.9	752.9	752.9
2.5°	755.0	755.3	753.5	748.9	746.0
5°	752.1	751.8	748.9	744.8	742.5
7.5°	743.7	744.3	743.4	737.6	734.4
10°	735.6	735.9	733.6	728.9	725.2
12.5°	725.2	724.9	721.7	719.4	713.3
15°	708.7	710.4	708.7	705.5	700.6
17.5°	692.8	692.8	693.9	688.4	684.7
20°	674.8	675.7	675.7	671.4	667.0
22.5°	654.0	656.6	657.5	652.9	647.6
25°	629.4	634.3	637.2	632.6	627.1
27.5°	599.6	607.2	615.8	612.4	606.3
30°	566.4	577.4	591.8	588.9	584.6
32.5°	534.8	545.8	565.8	564.6	562.3
35°	506.2	513.1	536.6	539.5	537.4
37.5°	479.0	485.4	507.4	514.0	512.3
40°	450.4	457.3	474.7	486.5	487.1
42.5°	422.0	428.7	442.9	459.9	459.9
45°	391.9	398.6	411.6	430.4	432.7
47.5°	362.4	369.4	382.1	400.9	404.7
50°	333.5	339.9	352.6	370.8	376.6
52.5°	303.4	310.4	322.8	339.6	348.0
55°	274.5	279.1	292.7	308.9	317.9
57.5°	244.4	248.8	264.1	278.0	287.2
60°	215.5	221.0	232.9	247.0	257.7
62.5°	187.7	193.5	203.6	216.1	228.2
65°	160.8	165.2	175.0	187.4	198.1
67.5°	134.8	138.6	148.4	157.1	168.3
70°	108.5	113.4	120.6	129.0	136.2
72.5°	87.4	89.4	95.5	101.5	109.1
75°	64.5	68.0	72.9	76.4	80.7
77.5°	46.3	48.3	51.2	54.1	58.1
80°	31.0	31.8	34.4	35.0	38.2
82.5°	18.8	19.4	20.0	20.2	21.4
85°	10.1	10.1	10.1	9.5	9.5
87.5°	5.8	5.8	4.9	4.0	2.9
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)