

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: P553859

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-81-85-EDD**

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: P553859
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-LD4-1HI-30-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

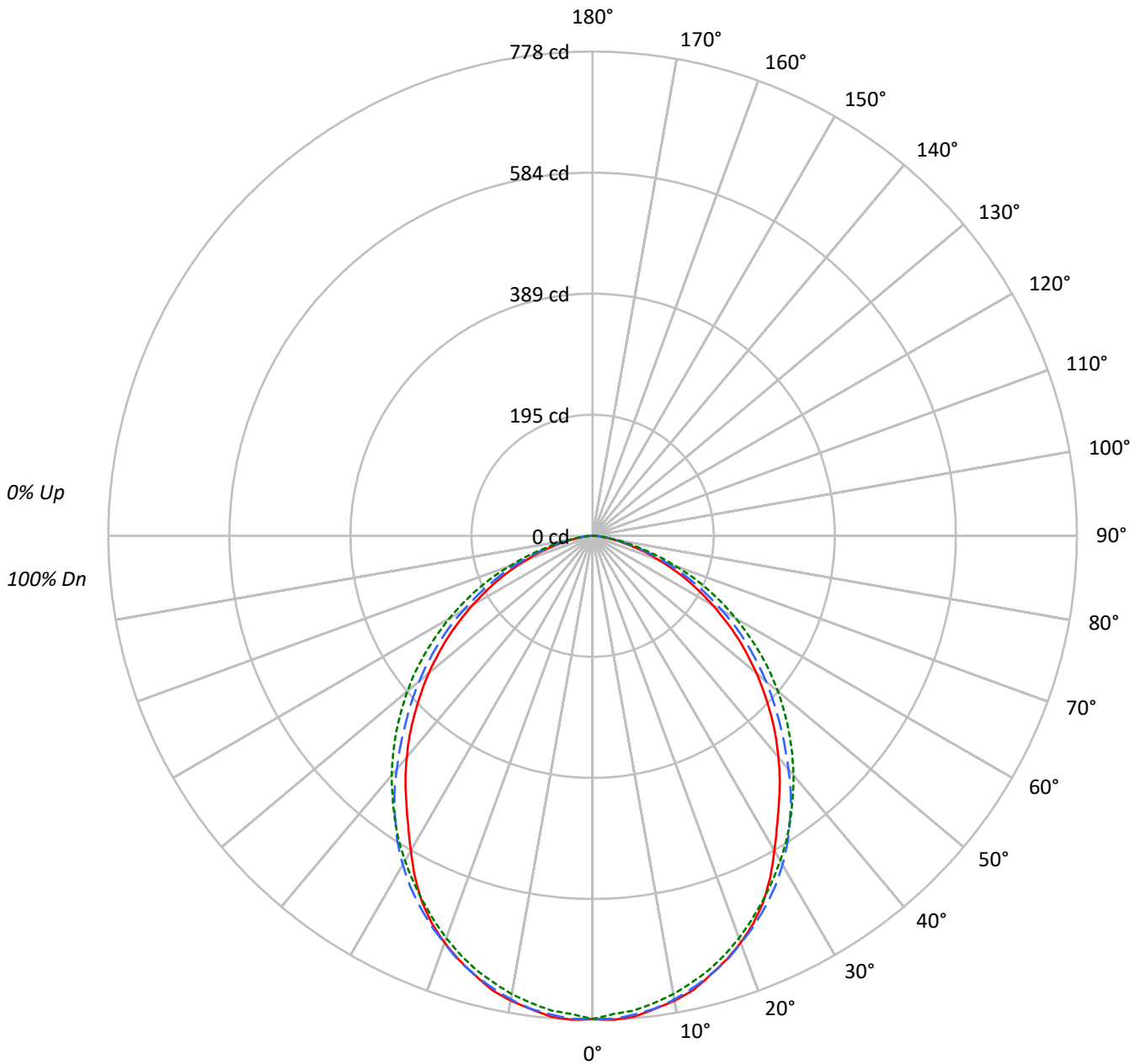
Lumens per Lamp: N/A
Luminaire Lumens: 1795.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4178	4178	4178
5°	4189	4171	4136
10°	4145	4133	4086
15°	4071	4071	4025
20°	3985	3990	3939
25°	3853	3901	3840
30°	3629	3792	3746
35°	3429	3635	3641
40°	3262	3438	3528
45°	3076	3230	3396
50°	2879	3044	3251
55°	2655	2832	3076
60°	2392	2584	2860
65°	2111	2297	2602
70°	1759	1958	2211
75°	1383	1564	1730
80°	989	1100	1221
85°	642	642	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.1	4.1
10°-20°	205.3	11.4
20°-30°	300.1	16.7
30°-40°	340.6	19.0
40°-50°	328.8	18.3
50°-60°	271.2	15.1
60°-70°	180.6	10.1
70°-80°	80.8	4.5
80°-90°	14.5	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°	578.5	32.2
0°-40°	919.1	51.2
0°-60°	1519.1	84.6
0°-90°	1795.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1795.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	776	776	776	776	776	
5°	775	775	772	768	766	73
15°	731	732	731	727	722	206
25°	649	654	657	652	647	297
35°	522	529	553	556	554	327
45°	404	411	424	444	446	312
55°	283	288	302	318	328	253
65°	166	170	180	193	204	164
75°	66	70	75	79	83	73
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°	776.3	776.3	776.3	776.3	776.3
2.5°	778.4	778.7	776.9	772.1	769.1
5°	775.4	775.1	772.1	767.9	765.6
7.5°	766.7	767.3	766.4	760.5	757.2
10°	758.4	758.7	756.3	751.5	747.7
12.5°	747.7	747.4	744.1	741.7	735.4
15°	730.7	732.5	730.7	727.4	722.3
17.5°	714.3	714.3	715.5	709.8	705.9
20°	695.8	696.7	696.7	692.2	687.7
22.5°	674.3	677.0	677.9	673.1	667.7
25°	648.9	654.0	657.0	652.2	646.6
27.5°	618.2	626.0	634.9	631.4	625.1
30°	583.9	595.3	610.2	607.2	602.7
32.5°	551.4	562.8	583.3	582.1	579.8
35°	521.9	529.1	553.2	556.2	554.1
37.5°	493.9	500.4	523.1	530.0	528.2
40°	464.3	471.5	489.4	501.6	502.2
42.5°	435.1	442.0	456.6	474.2	474.2
45°	404.1	411.0	424.4	443.8	446.2
47.5°	373.7	380.8	394.0	413.3	417.2
50°	343.9	350.4	363.5	382.3	388.3
52.5°	312.8	320.0	332.8	350.1	358.8
55°	283.0	287.8	301.8	318.5	327.8
57.5°	252.0	256.5	272.3	286.6	296.1
60°	222.2	227.8	240.1	254.7	265.7
62.5°	193.6	199.5	210.0	222.8	235.3
65°	165.8	170.3	180.4	193.3	204.3
67.5°	139.0	142.9	153.0	161.9	173.6
70°	111.8	116.9	124.4	133.0	140.5
72.5°	90.1	92.2	98.4	104.7	112.4
75°	66.5	70.1	75.2	78.7	83.2
77.5°	47.7	49.8	52.8	55.8	59.9
80°	31.9	32.8	35.5	36.1	39.4
82.5°	19.4	20.0	20.6	20.9	22.1
85°	10.4	10.4	10.4	9.8	9.8
87.5°	6.0	6.0	5.1	4.2	3.0
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)