

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: P553891

Luminaire Tested: **FUSL-12-2-LD4-1HI-30-UNV-93-85-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: P553891
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-93-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS 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

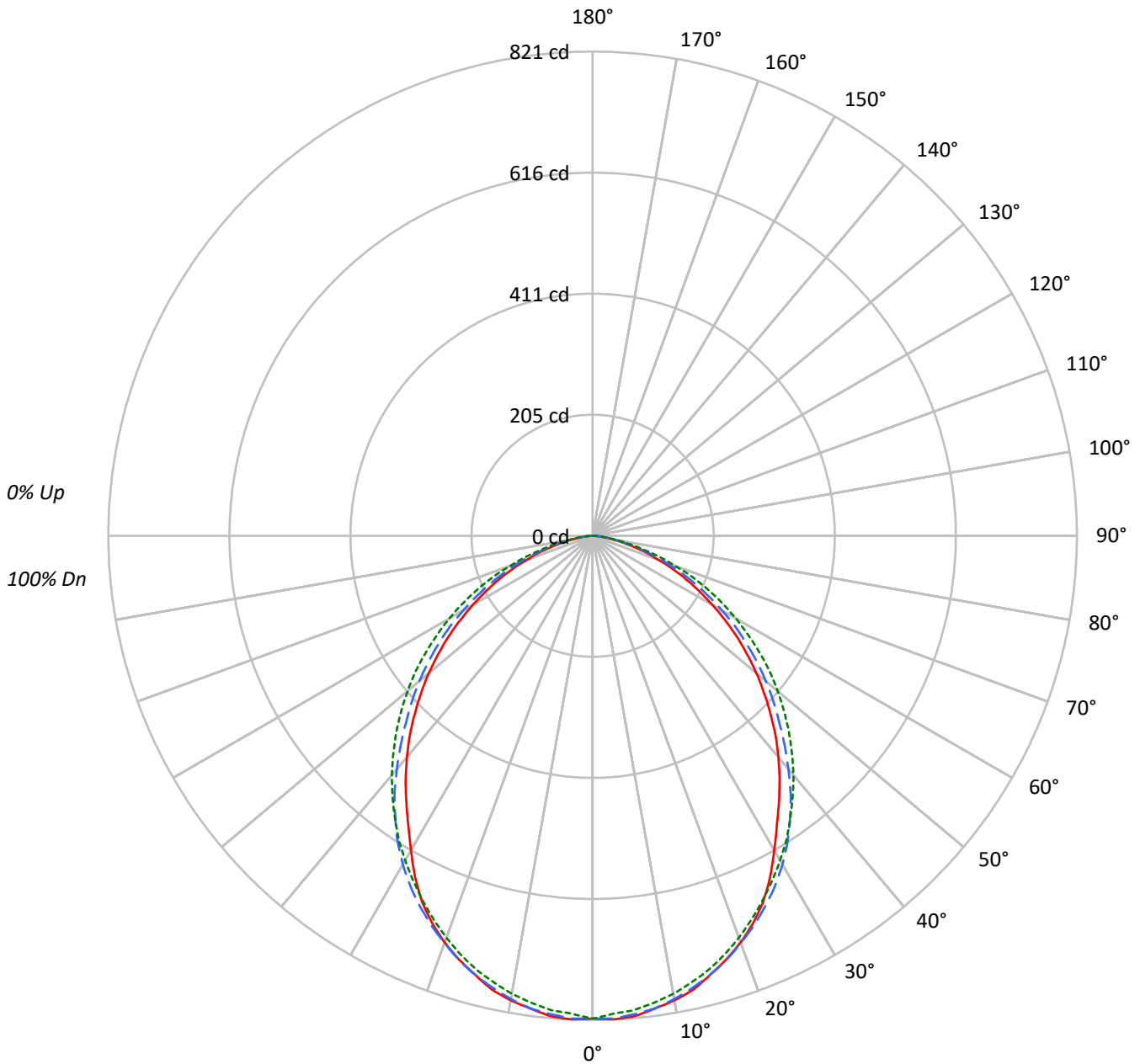
Lumens per Lamp: N/A
Luminaire Lumens: 1893.0 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	4406	4406	4406
5°	4418	4399	4362
10°	4371	4359	4309
15°	4294	4294	4244
20°	4203	4208	4154
25°	4064	4115	4049
30°	3827	3999	3950
35°	3616	3833	3840
40°	3440	3626	3721
45°	3244	3406	3581
50°	3036	3210	3429
55°	2801	2987	3243
60°	2522	2725	3016
65°	2227	2423	2743
70°	1855	2065	2330
75°	1458	1649	1824
80°	1044	1159	1286
85°	679	679	642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	4.1
10°-20°	216.5	11.4
20°-30°	316.4	16.7
30°-40°	359.2	19.0
40°-50°	346.7	18.3
50°-60°	286.0	15.1
60°-70°	190.5	10.1
70°-80°	85.2	4.5
80°-90°	15.2	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°	610.1	32.2
0°-40°	969.3	51.2
0°-60°	1602.0	84.6
0°-90°	1893.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1893.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	819	819	819	819	819	
5°	818	817	814	810	807	77
15°	771	772	771	767	762	217
25°	684	690	693	688	682	313
35°	550	558	583	587	584	345
45°	426	433	448	468	470	329
55°	298	304	318	336	346	266
65°	175	180	190	204	215	173
75°	70	74	79	83	88	77
85°	11	11	11	10	10	15
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	820.9	821.2	819.3	814.3	811.1
5°	817.7	817.4	814.3	809.9	807.4
7.5°	808.6	809.2	808.3	802.0	798.5
10°	799.8	800.1	797.6	792.6	788.5
12.5°	788.5	788.2	784.7	782.2	775.6
15°	770.6	772.4	770.6	767.1	761.7
17.5°	753.3	753.3	754.5	748.5	744.4
20°	733.8	734.7	734.7	730.0	725.3
22.5°	711.1	713.9	714.9	709.9	704.2
25°	684.4	689.7	692.9	687.8	681.9
27.5°	652.0	660.2	669.6	665.8	659.2
30°	615.8	627.8	643.5	640.3	635.6
32.5°	581.5	593.5	615.2	613.9	611.4
35°	550.4	557.9	583.4	586.6	584.4
37.5°	520.8	527.8	551.7	558.9	557.0
40°	489.7	497.2	516.1	529.0	529.6
42.5°	458.9	466.1	481.5	500.1	500.1
45°	426.2	433.4	447.5	468.0	470.5
47.5°	394.1	401.6	415.5	435.9	440.0
50°	362.6	369.6	383.4	403.2	409.5
52.5°	329.9	337.5	351.0	369.2	378.4
55°	298.5	303.5	318.3	335.9	345.6
57.5°	265.8	270.5	287.1	302.2	312.3
60°	234.3	240.3	253.2	268.6	280.2
62.5°	204.1	210.4	221.4	234.9	248.1
65°	174.9	179.6	190.3	203.8	215.4
67.5°	146.6	150.7	161.3	170.8	183.0
70°	117.9	123.3	131.2	140.3	148.1
72.5°	95.0	97.2	103.8	110.4	118.6
75°	70.1	73.9	79.3	83.0	87.7
77.5°	50.3	52.5	55.7	58.8	63.2
80°	33.7	34.6	37.4	38.1	41.5
82.5°	20.4	21.1	21.7	22.0	23.3
85°	11.0	11.0	11.0	10.4	10.4
87.5°	6.3	6.3	5.3	4.4	3.1
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)