

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: P555130

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-94-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: P555130
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-LD4-2STD-30-UNV-80-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

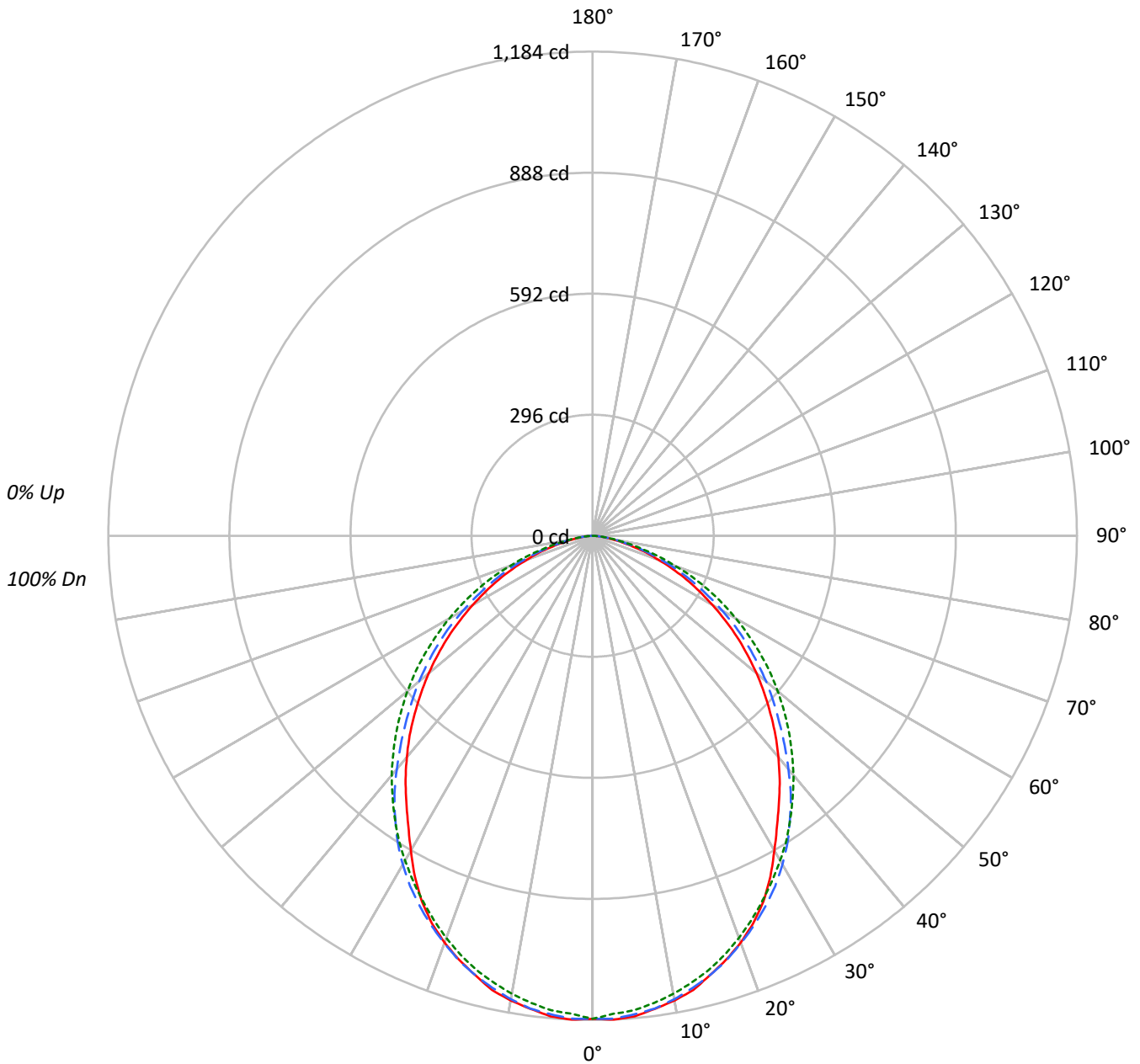
Lumens per Lamp: N/A
Luminaire Lumens: 2731.0 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	6357	6357	6357
5°	6373	6346	6293
10°	6306	6289	6216
15°	6194	6194	6123
20°	6063	6070	5993
25°	5863	5936	5842
30°	5521	5770	5699
35°	5217	5530	5539
40°	4964	5231	5368
45°	4679	4915	5167
50°	4381	4631	4947
55°	4040	4309	4679
60°	3638	3932	4352
65°	3213	3496	3958
70°	2678	2977	3363
75°	2104	2377	2633
80°	1506	1674	1857
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.2	4.1
10°-20°	312.4	11.4
20°-30°	456.5	16.7
30°-40°	518.2	19.0
40°-50°	500.2	18.3
50°-60°	412.7	15.1
60°-70°	274.8	10.1
70°-80°	123.0	4.5
80°-90°	22.0	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°	880.1	32.2
0°-40°	1398.3	51.2
0°-60°	2311.2	84.6
0°-90°	2731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2731.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1180	1179	1175	1168	1165	112
15°	1112	1114	1112	1107	1099	313
25°	987	995	1000	992	984	452
35°	794	805	842	846	843	498
45°	615	625	646	675	679	474
55°	431	438	459	485	499	384
65°	252	259	274	294	311	250
75°	101	107	114	120	127	111
85°	16	16	16	15	15	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1181.1	1181.1	1181.1	1181.1	1181.1
2.5°	1184.3	1184.7	1182.0	1174.7	1170.2
5°	1179.7	1179.3	1174.7	1168.4	1164.8
7.5°	1166.6	1167.5	1166.1	1157.0	1152.0
10°	1153.9	1154.3	1150.7	1143.4	1137.5
12.5°	1137.5	1137.1	1132.1	1128.5	1118.9
15°	1111.7	1114.4	1111.7	1106.7	1099.0
17.5°	1086.7	1086.7	1088.5	1079.9	1074.0
20°	1058.6	1059.9	1059.9	1053.1	1046.3
22.5°	1025.9	1030.0	1031.4	1024.1	1015.9
25°	987.3	995.1	999.6	992.3	983.7
27.5°	940.6	952.4	966.0	960.6	951.0
30°	888.4	905.7	928.4	923.8	917.0
32.5°	839.0	856.2	887.5	885.7	882.1
35°	794.0	804.9	841.7	846.2	843.1
37.5°	751.4	761.4	795.9	806.3	803.6
40°	706.5	717.4	744.6	763.2	764.1
42.5°	662.0	672.4	694.7	721.4	721.4
45°	614.8	625.3	645.7	675.2	678.8
47.5°	568.5	579.4	599.4	628.9	634.8
50°	523.2	533.1	553.1	581.7	590.8
52.5°	476.0	486.9	506.4	532.7	545.9
55°	430.6	437.9	459.2	484.6	498.7
57.5°	383.4	390.2	414.3	436.0	450.6
60°	338.0	346.7	365.3	387.5	404.3
62.5°	294.5	303.6	319.4	338.9	358.0
65°	252.3	259.1	274.5	294.0	310.8
67.5°	211.4	217.3	232.8	246.4	264.1
70°	170.2	177.9	189.2	202.4	213.7
72.5°	137.0	140.2	149.7	159.3	171.1
75°	101.2	106.6	114.3	119.8	126.6
77.5°	72.6	75.8	80.3	84.8	91.2
80°	48.6	49.9	54.0	54.9	59.9
82.5°	29.5	30.4	31.3	31.8	33.6
85°	15.9	15.9	15.9	15.0	15.0
87.5°	9.1	9.1	7.7	6.4	4.5
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)