

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: P555670

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-82-87-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: P555670
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-LD4-3LO-30-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

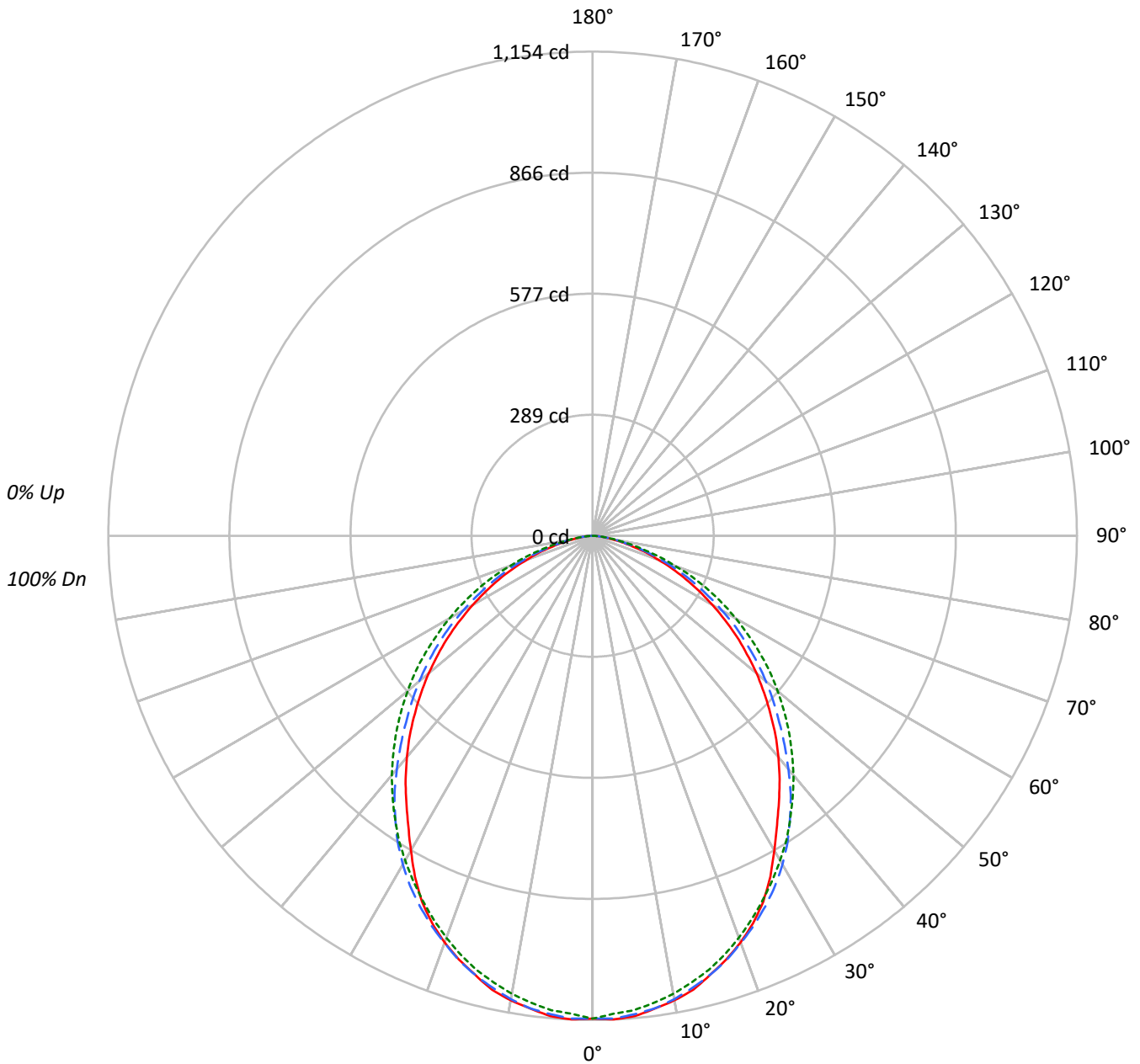
Lumens per Lamp: N/A
Luminaire Lumens: 2661.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	6194	6194	6194
5°	6210	6184	6131
10°	6144	6127	6057
15°	6035	6035	5966
20°	5907	5915	5839
25°	5713	5784	5692
30°	5380	5622	5553
35°	5083	5388	5397
40°	4836	5097	5231
45°	4560	4788	5034
50°	4268	4512	4819
55°	3937	4198	4559
60°	3546	3831	4240
65°	3130	3407	3856
70°	2609	2902	3276
75°	2050	2316	2564
80°	1466	1630	1810
85°	957	957	902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.4	4.1
10°-20°	304.4	11.4
20°-30°	444.8	16.7
30°-40°	504.9	19.0
40°-50°	487.4	18.3
50°-60°	402.1	15.1
60°-70°	267.8	10.1
70°-80°	119.8	4.5
80°-90°	21.4	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°	857.6	32.2
0°-40°	1362.5	51.2
0°-60°	2252.0	84.6
0°-90°	2661.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2661.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1150	1149	1145	1138	1135	109
15°	1083	1086	1083	1078	1071	305
25°	962	970	974	967	958	441
35°	774	784	820	824	821	485
45°	599	609	629	658	661	462
55°	420	427	447	472	486	374
65°	246	252	268	286	303	244
75°	99	104	111	117	123	108
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°	1150.8	1150.8	1150.8	1150.8	1150.8
2.5°	1153.9	1154.4	1151.7	1144.6	1140.2
5°	1149.5	1149.0	1144.6	1138.4	1134.9
7.5°	1136.7	1137.6	1136.2	1127.4	1122.5
10°	1124.3	1124.7	1121.2	1114.1	1108.4
12.5°	1108.4	1107.9	1103.1	1099.5	1090.2
15°	1083.2	1085.8	1083.2	1078.3	1070.8
17.5°	1058.9	1058.9	1060.6	1052.2	1046.5
20°	1031.4	1032.8	1032.8	1026.1	1019.5
22.5°	999.6	1003.6	1004.9	997.8	989.9
25°	962.0	969.5	974.0	966.9	958.5
27.5°	916.5	928.0	941.3	935.9	926.7
30°	865.7	882.5	904.6	900.1	893.5
32.5°	817.5	834.3	864.8	863.0	859.5
35°	773.7	784.3	820.1	824.5	821.4
37.5°	732.1	741.9	775.5	785.6	783.0
40°	688.4	699.0	725.5	743.6	744.5
42.5°	645.0	655.2	676.9	703.0	703.0
45°	599.1	609.2	629.1	657.9	661.4
47.5°	554.0	564.6	584.0	612.8	618.5
50°	509.8	519.5	538.9	566.8	575.6
52.5°	463.8	474.4	493.4	519.0	531.9
55°	419.6	426.6	447.4	472.2	485.9
57.5°	373.6	380.2	403.6	424.9	439.0
60°	329.4	337.8	355.9	377.6	393.9
62.5°	286.9	295.8	311.2	330.3	348.8
65°	245.8	252.4	267.5	286.5	302.8
67.5°	206.0	211.8	226.8	240.1	257.3
70°	165.8	173.3	184.4	197.2	208.2
72.5°	133.5	136.6	145.9	155.2	166.7
75°	98.6	103.9	111.4	116.7	123.3
77.5°	70.7	73.8	78.3	82.7	88.9
80°	47.3	48.6	52.6	53.5	58.4
82.5°	28.7	29.6	30.5	30.9	32.7
85°	15.5	15.5	15.5	14.6	14.6
87.5°	8.8	8.8	7.5	6.2	4.4
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)