

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: P555158

Luminaire Tested: **FUSL-12-2-LD4-2STD-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: P555158
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-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

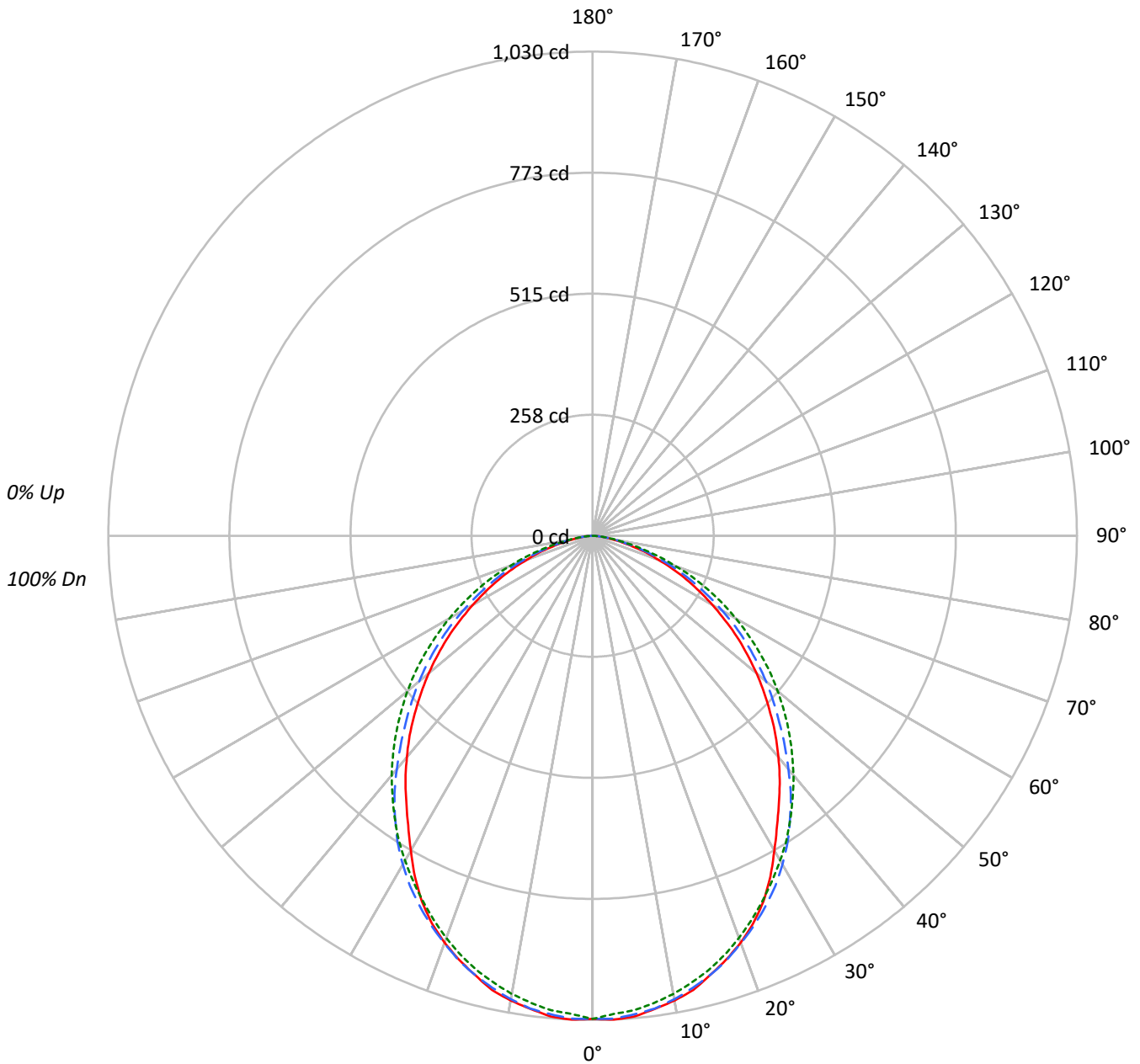
Lumens per Lamp: N/A
Luminaire Lumens: 2376.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	5530	5530	5530
5°	5545	5521	5474
10°	5486	5471	5409
15°	5389	5389	5327
20°	5275	5282	5214
25°	5101	5165	5082
30°	4803	5019	4958
35°	4539	4811	4819
40°	4318	4551	4671
45°	4071	4275	4495
50°	3811	4029	4304
55°	3515	3749	4070
60°	3166	3421	3786
65°	2795	3041	3443
70°	2329	2590	2925
75°	1830	2069	2289
80°	1308	1457	1615
85°	852	852	803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	4.1
10°-20°	271.8	11.4
20°-30°	397.2	16.7
30°-40°	450.8	19.0
40°-50°	435.2	18.3
50°-60°	359.0	15.1
60°-70°	239.1	10.1
70°-80°	107.0	4.5
80°-90°	19.1	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°	765.7	32.2
0°-40°	1216.5	51.2
0°-60°	2010.8	84.6
0°-90°	2376.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2376.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1028	1028	1028	1028	1028	
5°	1026	1026	1022	1016	1013	97
15°	967	970	967	963	956	273
25°	859	866	870	863	856	393
35°	691	700	732	736	734	433
45°	535	544	562	587	591	413
55°	375	381	400	422	434	334
65°	220	225	239	256	270	218
75°	88	93	100	104	110	96
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1027.6	1027.6	1027.6	1027.6	1027.6
2.5°	1030.3	1030.7	1028.3	1022.0	1018.1
5°	1026.4	1026.0	1022.0	1016.5	1013.3
7.5°	1014.9	1015.7	1014.5	1006.6	1002.3
10°	1003.9	1004.3	1001.1	994.8	989.7
12.5°	989.7	989.3	984.9	981.8	973.5
15°	967.2	969.5	967.2	962.8	956.1
17.5°	945.4	945.4	947.0	939.5	934.4
20°	921.0	922.2	922.2	916.2	910.3
22.5°	892.6	896.1	897.3	891.0	883.9
25°	859.0	865.7	869.7	863.3	855.8
27.5°	818.3	828.6	840.4	835.7	827.4
30°	772.9	787.9	807.7	803.7	797.8
32.5°	729.9	744.9	772.1	770.6	767.4
35°	690.8	700.3	732.3	736.2	733.5
37.5°	653.7	662.4	692.4	701.5	699.1
40°	614.6	624.1	647.8	664.0	664.8
42.5°	576.0	585.0	604.4	627.7	627.7
45°	534.9	544.0	561.7	587.4	590.6
47.5°	494.6	504.1	521.5	547.1	552.3
50°	455.2	463.8	481.2	506.1	514.0
52.5°	414.1	423.6	440.6	463.4	474.9
55°	374.6	380.9	399.5	421.6	433.8
57.5°	333.6	339.5	360.4	379.4	392.0
60°	294.1	301.6	317.8	337.1	351.7
62.5°	256.2	264.1	277.9	294.9	311.5
65°	219.5	225.4	238.8	255.8	270.4
67.5°	184.0	189.1	202.5	214.4	229.7
70°	148.0	154.7	164.6	176.1	185.9
72.5°	119.2	122.0	130.3	138.6	148.8
75°	88.0	92.8	99.5	104.2	110.1
77.5°	63.2	65.9	69.9	73.8	79.3
80°	42.2	43.4	47.0	47.8	52.1
82.5°	25.7	26.4	27.2	27.6	29.2
85°	13.8	13.8	13.8	13.0	13.0
87.5°	7.9	7.9	6.7	5.5	3.9
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)