

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: P555165

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-82-96-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: P555165
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-82-96-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

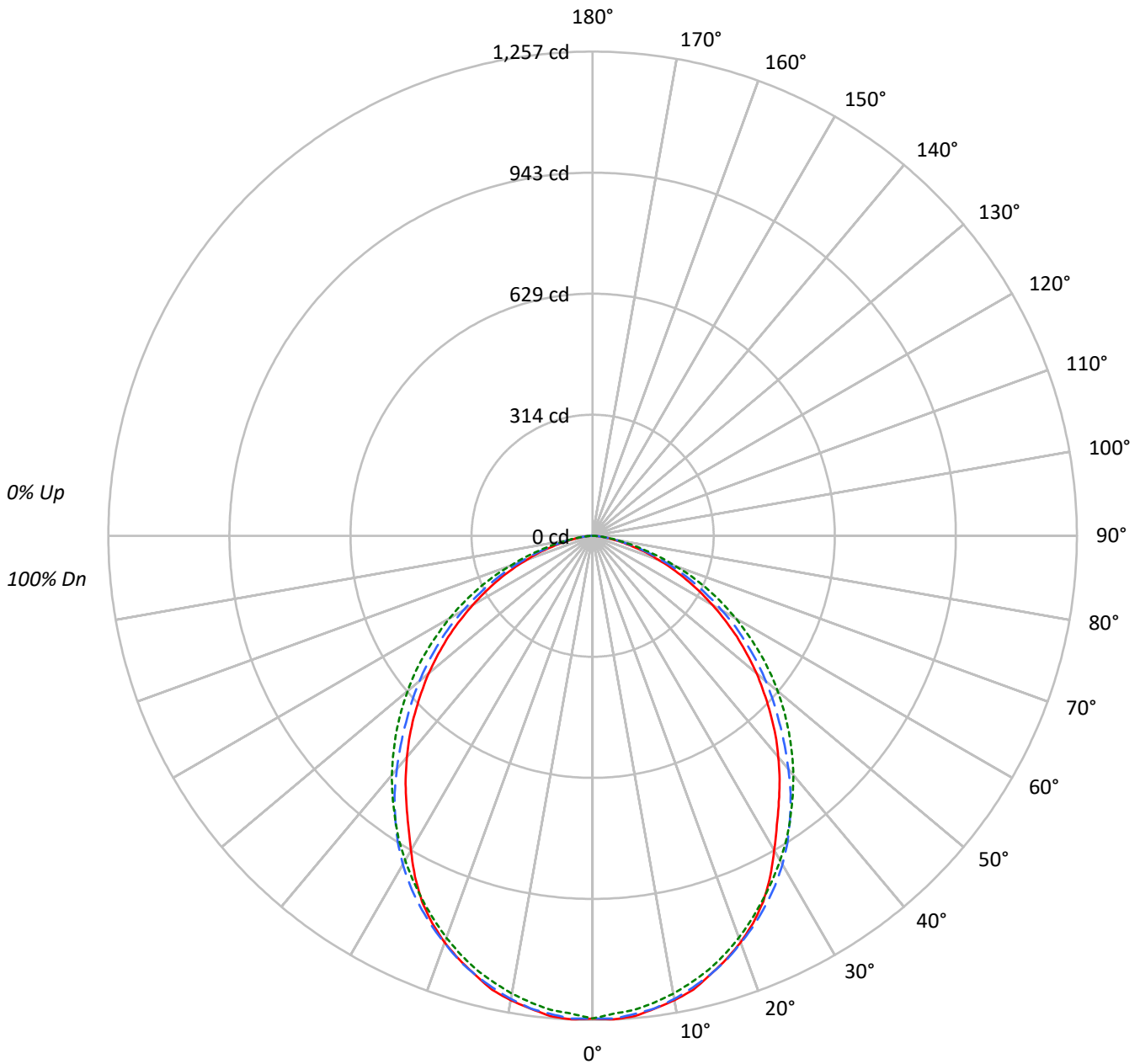
Lumens per Lamp: N/A
Luminaire Lumens: 2898.0 lumens
Efficiency: N/A
Efficacy: 87.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6745	6745	6745
5°	6763	6735	6678
10°	6691	6673	6597
15°	6573	6573	6498
20°	6434	6442	6359
25°	6222	6299	6199
30°	5859	6122	6047
35°	5536	5868	5878
40°	5267	5551	5696
45°	4966	5215	5482
50°	4649	4914	5249
55°	4287	4572	4966
60°	3861	4172	4618
65°	3409	3710	4200
70°	2842	3160	3569
75°	2233	2522	2793
80°	1596	1776	1971
85°	1044	1044	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	4.1
10°-20°	331.5	11.4
20°-30°	484.4	16.7
30°-40°	549.9	19.0
40°-50°	530.8	18.3
50°-60°	437.9	15.1
60°-70°	291.6	10.1
70°-80°	130.5	4.5
80°-90°	23.4	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°	933.9	32.2
0°-40°	1483.8	51.2
0°-60°	2452.6	84.6
0°-90°	2898.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2898.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1253	1253	1253	1253	1253	
5°	1252	1251	1247	1240	1236	118
15°	1180	1182	1180	1174	1166	333
25°	1048	1056	1061	1053	1044	480
35°	843	854	893	898	895	528
45°	652	664	685	716	720	503
55°	457	465	487	514	529	408
65°	268	275	291	312	330	265
75°	107	113	121	127	134	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1253.3	1253.3	1253.3	1253.3	1253.3
2.5°	1256.7	1257.2	1254.3	1246.6	1241.8
5°	1251.9	1251.4	1246.6	1239.8	1236.0
7.5°	1237.9	1238.9	1237.4	1227.8	1222.5
10°	1224.4	1224.9	1221.1	1213.3	1207.1
12.5°	1207.1	1206.6	1201.3	1197.5	1187.3
15°	1179.6	1182.5	1179.6	1174.3	1166.2
17.5°	1153.2	1153.2	1155.1	1145.9	1139.7
20°	1123.3	1124.8	1124.8	1117.5	1110.3
22.5°	1088.6	1093.0	1094.4	1086.7	1078.0
25°	1047.7	1055.9	1060.7	1053.0	1043.9
27.5°	998.1	1010.6	1025.1	1019.3	1009.2
30°	942.8	961.0	985.1	980.3	973.1
32.5°	890.3	908.6	941.8	939.9	936.0
35°	842.6	854.2	893.2	898.0	894.6
37.5°	797.3	807.9	844.5	855.6	852.7
40°	749.7	761.2	790.1	809.9	810.8
42.5°	702.5	713.6	737.2	765.6	765.6
45°	652.4	663.5	685.2	716.5	720.3
47.5°	603.3	614.9	636.0	667.3	673.6
50°	555.2	565.7	586.9	617.3	626.9
52.5°	505.1	516.6	537.3	565.3	579.2
55°	456.9	464.6	487.3	514.2	529.2
57.5°	406.9	414.1	439.6	462.7	478.1
60°	358.7	367.9	387.6	411.2	429.0
62.5°	312.5	322.1	339.0	359.7	379.9
65°	267.7	274.9	291.3	312.0	329.8
67.5°	224.4	230.6	247.0	261.4	280.2
70°	180.6	188.7	200.8	214.7	226.8
72.5°	145.4	148.8	158.9	169.0	181.5
75°	107.4	113.1	121.3	127.1	134.3
77.5°	77.0	80.4	85.2	90.0	96.8
80°	51.5	53.0	57.3	58.3	63.6
82.5°	31.3	32.3	33.2	33.7	35.6
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.6	9.6	8.2	6.7	4.8
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)