

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: P555159

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-82-87-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: P555159
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
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

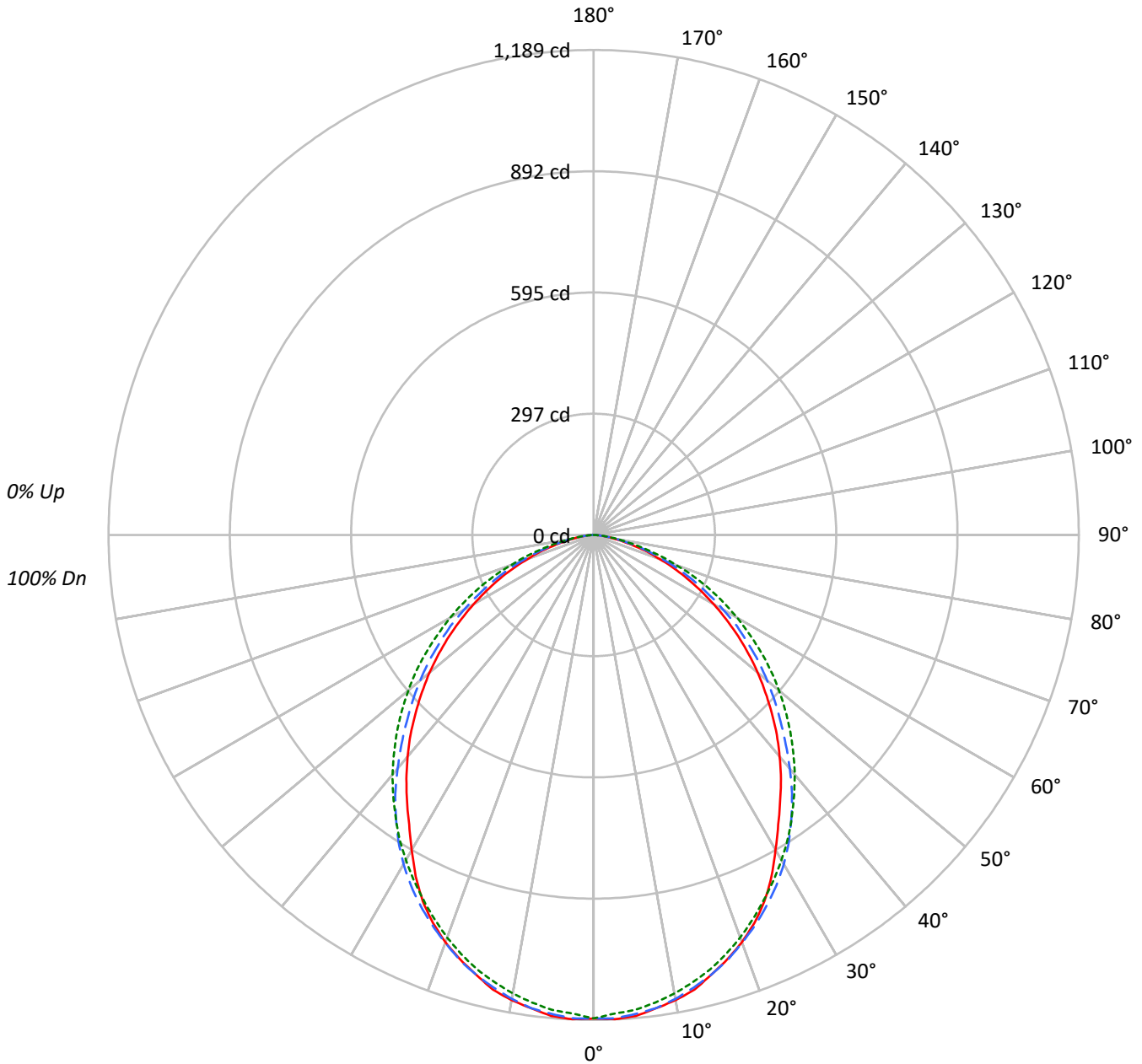
Lumens per Lamp: N/A
Luminaire Lumens: 2741.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P555159

CATALOG NUMBER: FUSL-12-2-LD4-2STD-30-UNV-82-87-EDD

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°	6380	6380	6380
5°	6397	6370	6316
10°	6329	6312	6239
15°	6216	6216	6146
20°	6085	6093	6015
25°	5885	5958	5863
30°	5542	5791	5720
35°	5236	5550	5559
40°	4982	5250	5388
45°	4697	4932	5186
50°	4397	4648	4964
55°	4055	4325	4696
60°	3652	3946	4368
65°	3224	3508	3973
70°	2688	2988	3375
75°	2113	2387	2643
80°	1509	1680	1863
85°	982	982	926



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	4.1
10°-20°	313.5	11.4
20°-30°	458.2	16.7
30°-40°	520.1	19.0
40°-50°	502.1	18.3
50°-60°	414.2	15.1
60°-70°	275.8	10.1
70°-80°	123.4	4.5
80°-90°	22.1	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°	883.3	32.2
0°-40°	1403.4	51.2
0°-60°	2319.7	84.6
0°-90°	2741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2741.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1185	1185	1185	1185	1185	
5°	1184	1184	1179	1173	1169	112
15°	1116	1118	1116	1111	1103	315
25°	991	999	1003	996	987	454
35°	797	808	845	849	846	499
45°	617	628	648	678	681	476
55°	432	440	461	486	500	386
65°	253	260	276	295	312	251
75°	102	107	115	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°	1185.4	1185.4	1185.4	1185.4	1185.4
2.5°	1188.6	1189.1	1186.3	1179.0	1174.5
5°	1184.0	1183.6	1179.0	1172.7	1169.0
7.5°	1170.8	1171.7	1170.4	1161.3	1156.3
10°	1158.1	1158.5	1154.9	1147.6	1141.7
12.5°	1141.7	1141.2	1136.2	1132.6	1123.0
15°	1115.7	1118.5	1115.7	1110.7	1103.0
17.5°	1090.7	1090.7	1092.5	1083.9	1077.9
20°	1062.5	1063.8	1063.8	1057.0	1050.2
22.5°	1029.7	1033.8	1035.1	1027.8	1019.6
25°	991.0	998.7	1003.3	996.0	987.3
27.5°	944.0	955.9	969.6	964.1	954.5
30°	891.7	909.0	931.8	927.2	920.4
32.5°	842.0	859.3	890.8	888.9	885.3
35°	797.0	807.9	844.8	849.3	846.1
37.5°	754.1	764.2	798.8	809.2	806.5
40°	709.1	720.0	747.3	766.0	766.9
42.5°	664.4	674.9	697.2	724.1	724.1
45°	617.1	627.5	648.0	677.6	681.3
47.5°	570.6	581.5	601.6	631.2	637.1
50°	525.1	535.1	555.1	583.8	592.9
52.5°	477.7	488.6	508.2	534.6	547.8
55°	432.2	439.5	460.9	486.4	500.5
57.5°	384.8	391.6	415.8	437.6	452.2
60°	339.3	347.9	366.6	388.9	405.8
62.5°	295.6	304.7	320.6	340.2	359.3
65°	253.2	260.0	275.5	295.1	312.0
67.5°	212.2	218.1	233.6	247.3	265.0
70°	170.8	178.5	189.9	203.1	214.5
72.5°	137.5	140.7	150.3	159.8	171.7
75°	101.6	107.0	114.8	120.2	127.1
77.5°	72.9	76.1	80.6	85.2	91.5
80°	48.7	50.1	54.2	55.1	60.1
82.5°	29.6	30.5	31.4	31.9	33.7
85°	15.9	15.9	15.9	15.0	15.0
87.5°	9.1	9.1	7.7	6.4	4.6
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)