

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: P555238

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-93-87-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: P555238
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-35-UNV-93-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

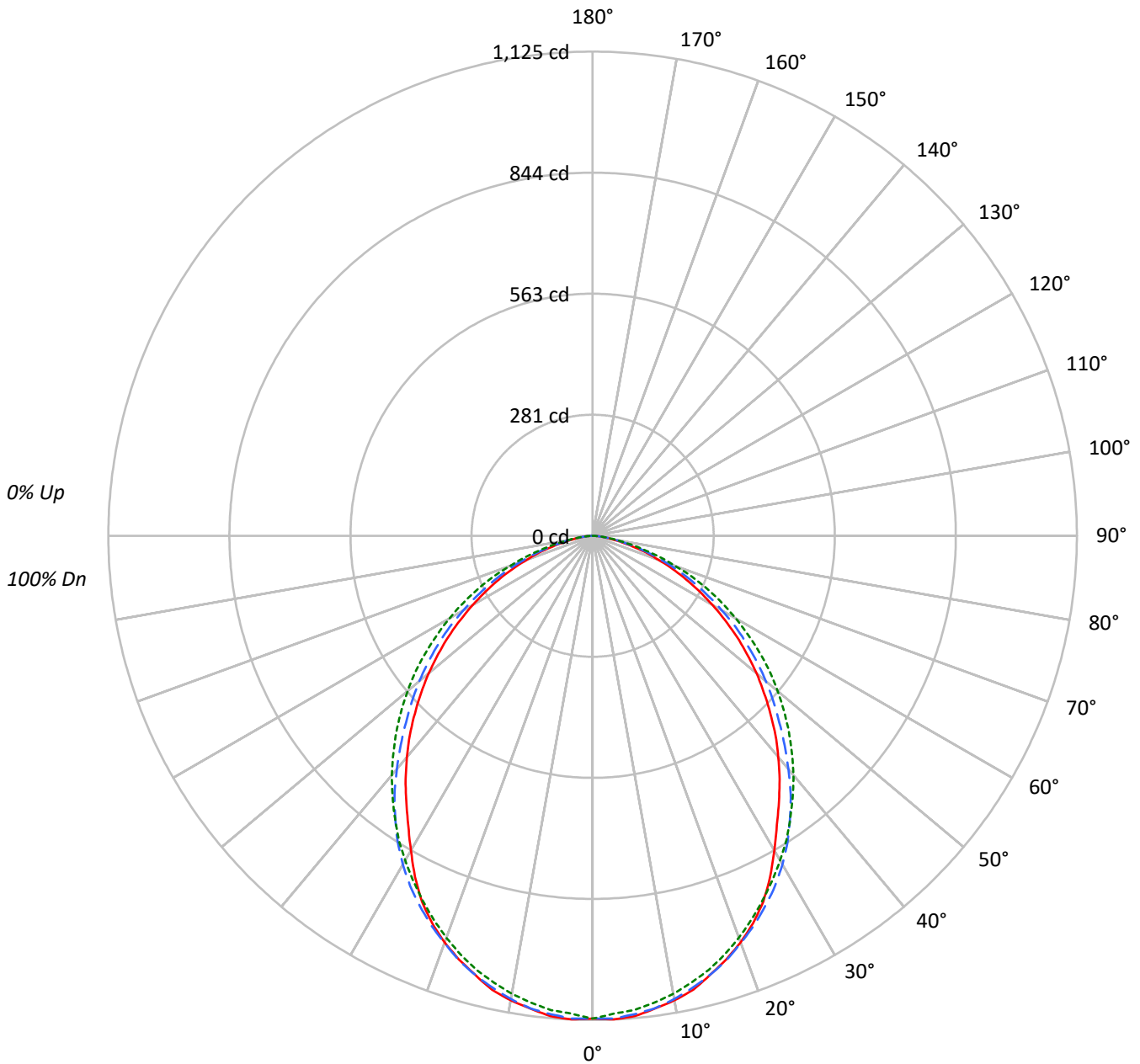
Lumens per Lamp: N/A
Luminaire Lumens: 2594.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6037	6037	6037
5°	6054	6028	5977
10°	5990	5973	5905
15°	5883	5883	5816
20°	5759	5766	5692
25°	5569	5638	5549
30°	5244	5480	5413
35°	4955	5253	5261
40°	4714	4969	5099
45°	4445	4668	4907
50°	4160	4399	4698
55°	3838	4093	4444
60°	3456	3734	4133
65°	3051	3320	3759
70°	2543	2828	3194
75°	1998	2258	2499
80°	1429	1590	1764
85°	932	932	877



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	4.1
10°-20°	296.7	11.4
20°-30°	433.6	16.7
30°-40°	492.2	19.0
40°-50°	475.1	18.3
50°-60°	392.0	15.1
60°-70°	261.0	10.1
70°-80°	116.8	4.5
80°-90°	20.9	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°	836.0	32.2
0°-40°	1328.2	51.2
0°-60°	2195.3	84.6
0°-90°	2594.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2594.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1122	1122	1122	1122	1122	
5°	1120	1120	1116	1110	1106	106
15°	1056	1058	1056	1051	1044	298
25°	938	945	949	943	934	429
35°	754	765	800	804	801	473
45°	584	594	613	641	645	451
55°	409	416	436	460	474	365
65°	240	246	261	279	295	238
75°	96	101	109	114	120	105
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1121.8	<i>1121.8</i>	1121.8	1121.8	1121.8
2.5°	<i>1124.9</i>	<i>1125.3</i>	<i>1122.7</i>	<i>1115.8</i>	<i>1111.5</i>
5°	1120.5	<i>1120.1</i>	1115.8	1109.8	1106.3
7.5°	1108.0	<i>1108.9</i>	1107.6	1099.0	1094.3
10°	1096.0	<i>1096.4</i>	1093.0	1086.1	1080.5
12.5°	1080.5	<i>1080.0</i>	1075.3	1071.8	1062.8
15°	1055.9	<i>1058.5</i>	1055.9	1051.2	1043.8
17.5°	1032.2	<i>1032.2</i>	1033.9	1025.7	1020.1
20°	1005.5	<i>1006.8</i>	1006.8	1000.3	993.8
22.5°	974.4	<i>978.3</i>	979.6	972.7	965.0
25°	937.8	<i>945.1</i>	949.4	942.6	934.4
27.5°	893.4	<i>904.6</i>	917.6	912.4	903.3
30°	843.9	<i>860.2</i>	881.8	877.5	871.0
32.5°	796.9	<i>813.3</i>	843.0	841.3	837.8
35°	754.2	<i>764.6</i>	799.5	803.8	800.8
37.5°	713.7	<i>723.2</i>	755.9	765.8	763.3
40°	671.0	<i>681.4</i>	707.2	724.9	725.8
42.5°	628.8	<i>638.7</i>	659.8	685.3	685.3
45°	584.0	<i>593.9</i>	613.3	641.3	644.7
47.5°	540.0	<i>550.4</i>	569.3	597.3	602.9
50°	496.9	<i>506.4</i>	525.4	552.5	561.1
52.5°	452.1	<i>462.4</i>	481.0	506.0	518.5
55°	409.0	<i>415.9</i>	436.2	460.3	473.6
57.5°	364.2	<i>370.6</i>	393.5	414.2	428.0
60°	321.1	<i>329.3</i>	346.9	368.1	384.0
62.5°	279.7	<i>288.3</i>	303.4	321.9	340.0
65°	239.6	<i>246.1</i>	260.7	279.3	295.2
67.5°	200.8	<i>206.4</i>	221.1	234.0	250.8
70°	161.6	<i>168.9</i>	179.7	192.2	203.0
72.5°	130.2	<i>133.2</i>	142.2	151.3	162.5
75°	96.1	<i>101.3</i>	108.6	113.8	120.2
77.5°	69.0	<i>72.0</i>	76.3	80.6	86.6
80°	46.1	<i>47.4</i>	51.3	52.1	56.9
82.5°	28.0	<i>28.9</i>	29.7	30.2	31.9
85°	15.1	<i>15.1</i>	15.1	14.2	14.2
87.5°	8.6	<i>8.6</i>	7.3	6.0	4.3
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)