

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: P555296

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-84-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: P555296
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-40-UNV-93-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

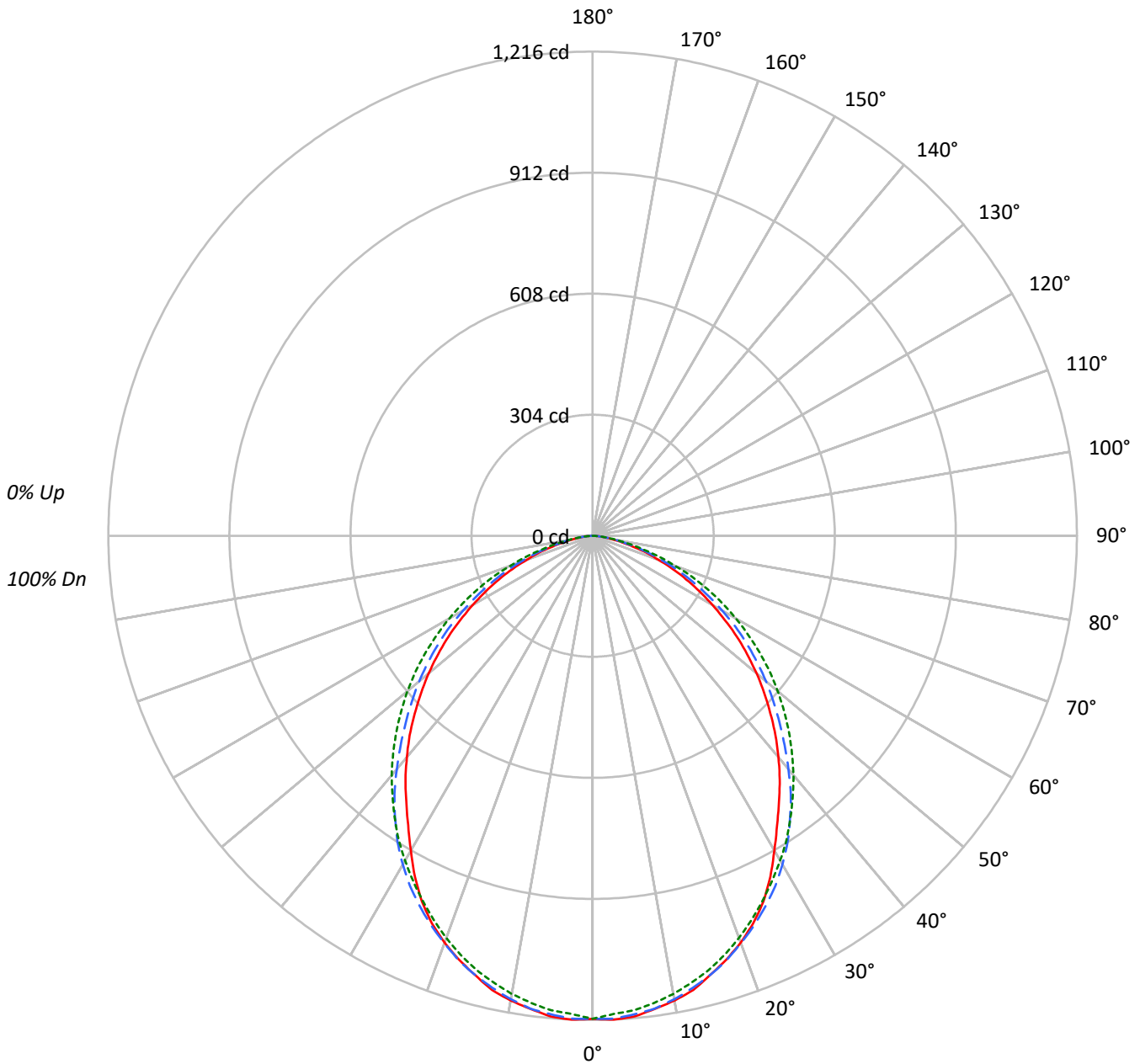
Lumens per Lamp: N/A
Luminaire Lumens: 2805.0 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6529	6529	6529
5°	6546	6519	6463
10°	6477	6459	6385
15°	6362	6362	6289
20°	6227	6235	6155
25°	6022	6097	6000
30°	5671	5926	5853
35°	5359	5680	5689
40°	5098	5373	5514
45°	4806	5048	5307
50°	4499	4757	5081
55°	4150	4425	4806
60°	3737	4039	4469
65°	3300	3591	4065
70°	2751	3057	3454
75°	2161	2441	2703
80°	1547	1720	1906
85°	1007	1007	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	4.1
10°-20°	320.9	11.4
20°-30°	468.9	16.7
30°-40°	532.2	19.0
40°-50°	513.8	18.3
50°-60°	423.9	15.1
60°-70°	282.3	10.1
70°-80°	126.3	4.5
80°-90°	22.6	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°	904.0	32.2
0°-40°	1436.2	51.2
0°-60°	2373.9	84.6
0°-90°	2805.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2805.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1213	1213	1213	1213	1213	
5°	1212	1211	1207	1200	1196	115
15°	1142	1145	1142	1137	1129	322
25°	1014	1022	1027	1019	1010	464
35°	816	827	864	869	866	511
45°	632	642	663	694	697	487
55°	442	450	472	498	512	395
65°	259	266	282	302	319	257
75°	104	110	117	123	130	114
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1213.1	1213.1	1213.1	1213.1	1213.1
2.5°	1216.4	1216.8	1214.0	1206.6	1201.9
5°	1211.7	1211.2	1206.6	1200.0	1196.3
7.5°	1198.2	1199.1	1197.7	1188.4	1183.3
10°	1185.1	1185.6	1181.9	1174.4	1168.4
12.5°	1168.4	1167.9	1162.8	1159.0	1149.2
15°	1141.8	1144.6	1141.8	1136.7	1128.7
17.5°	1116.2	1116.2	1118.0	1109.2	1103.1
20°	1087.3	1088.7	1088.7	1081.7	1074.7
22.5°	1053.7	1057.9	1059.3	1051.8	1043.5
25°	1014.1	1022.0	1026.7	1019.2	1010.4
27.5°	966.1	978.2	992.2	986.6	976.8
30°	912.5	930.2	953.5	948.8	941.9
32.5°	861.7	879.4	911.6	909.7	906.0
35°	815.6	826.7	864.5	869.2	865.9
37.5°	771.8	782.0	817.4	828.1	825.3
40°	725.6	736.8	764.8	783.9	784.8
42.5°	679.9	690.7	713.5	741.0	741.0
45°	631.5	642.2	663.2	693.5	697.2
47.5°	583.9	595.1	615.6	645.9	652.0
50°	537.3	547.6	568.1	597.5	606.8
52.5°	488.9	500.1	520.1	547.1	560.6
55°	442.3	449.7	471.6	497.7	512.2
57.5°	393.8	400.8	425.5	447.9	462.8
60°	347.2	356.1	375.2	398.0	415.2
62.5°	302.5	311.8	328.1	348.1	367.7
65°	259.1	266.1	282.0	302.0	319.2
67.5°	217.2	223.2	239.1	253.1	271.2
70°	174.8	182.7	194.3	207.9	219.5
72.5°	140.7	144.0	153.8	163.6	175.7
75°	103.9	109.5	117.4	123.0	130.0
77.5°	74.6	77.8	82.5	87.1	93.7
80°	49.9	51.3	55.5	56.4	61.5
82.5°	30.3	31.2	32.2	32.6	34.5
85°	16.3	16.3	16.3	15.4	15.4
87.5°	9.3	9.3	7.9	6.5	4.7
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)