

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: P555652

Luminaire Tested: **FUSL-12-2-LD4-3LO-30-UNV-81-86-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: P555652
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-LD4-3LO-30-UNV-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

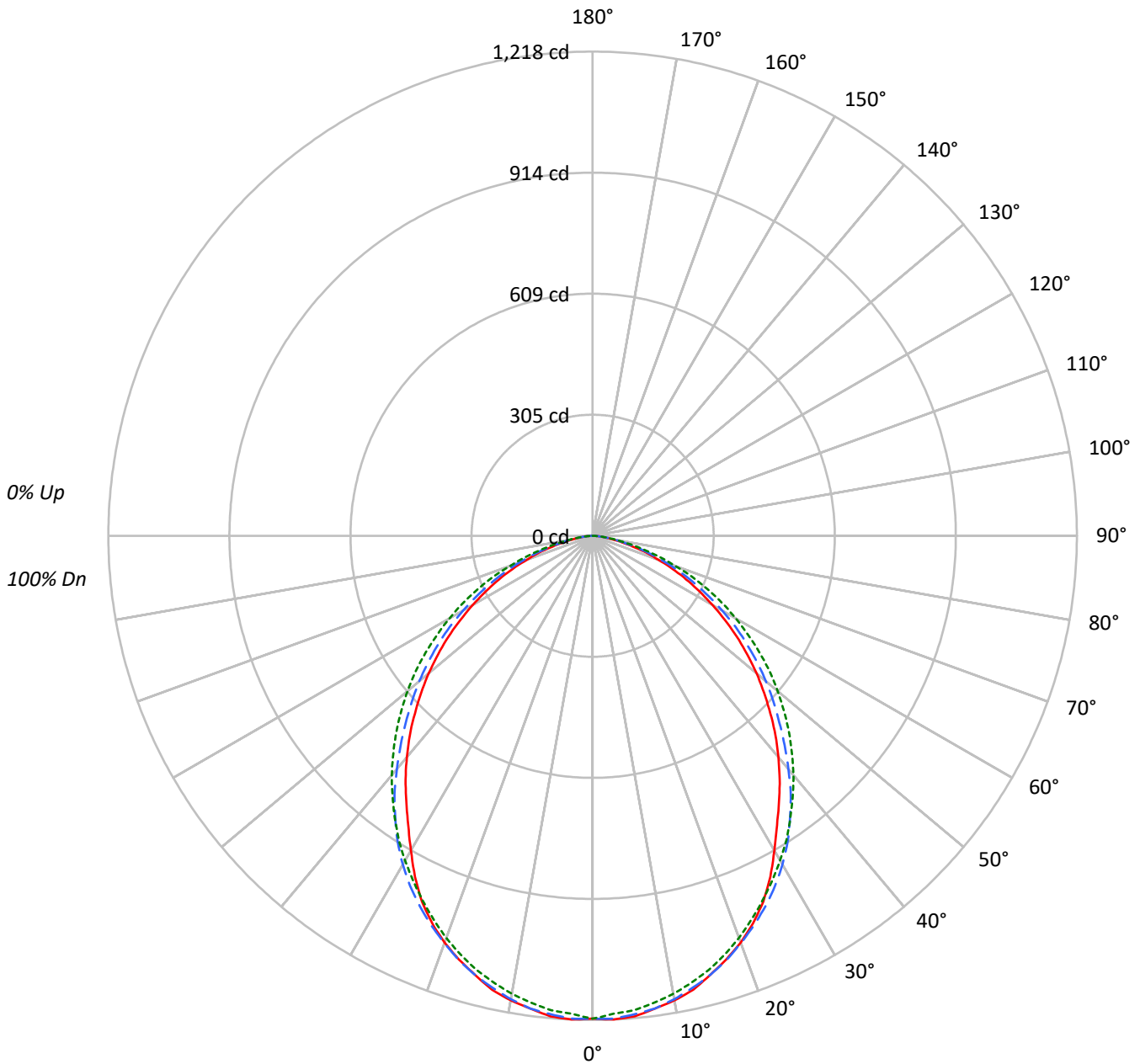
Lumens per Lamp: N/A
Luminaire Lumens: 2809.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (Ain): 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°	6538	6538	6538
5°	6555	6528	6472
10°	6486	6468	6394
15°	6371	6371	6298
20°	6236	6244	6164
25°	6030	6105	6008
30°	5679	5934	5862
35°	5366	5688	5697
40°	5106	5381	5521
45°	4813	5055	5314
50°	4505	4763	5087
55°	4156	4432	4813
60°	3743	4044	4476
65°	3305	3596	4071
70°	2754	3062	3459
75°	2165	2445	2707
80°	1547	1720	1909
85°	1007	1007	951



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	4.1
10°-20°	321.3	11.4
20°-30°	469.6	16.7
30°-40°	533.0	19.0
40°-50°	514.5	18.3
50°-60°	424.5	15.1
60°-70°	282.6	10.1
70°-80°	126.5	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°	905.3	32.2
0°-40°	1438.3	51.2
0°-60°	2377.2	84.6
0°-90°	2809.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2809.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1215	1215	1215	1215	1215	
5°	1213	1213	1208	1202	1198	115
15°	1143	1146	1143	1138	1130	322
25°	1016	1024	1028	1021	1012	465
35°	817	828	866	870	867	512
45°	632	643	664	694	698	488
55°	443	450	472	498	513	395
65°	260	266	282	302	320	257
75°	104	110	118	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°	1214.8	1214.8	1214.8	1214.8	1214.8
2.5°	1218.1	1218.6	1215.8	1208.3	1203.6
5°	1213.4	1213.0	1208.3	1201.8	1198.0
7.5°	1199.9	1200.8	1199.4	1190.1	1185.0
10°	1186.8	1187.3	1183.6	1176.1	1170.0
12.5°	1170.0	1169.6	1164.4	1160.7	1150.9
15°	1143.4	1146.2	1143.4	1138.3	1130.3
17.5°	1117.7	1117.7	1119.6	1110.7	1104.7
20°	1088.8	1090.2	1090.2	1083.2	1076.2
22.5°	1055.2	1059.4	1060.8	1053.3	1044.9
25°	1015.5	1023.5	1028.1	1020.7	1011.8
27.5°	967.5	979.6	993.6	988.0	978.2
30°	913.8	931.5	954.9	950.2	943.2
32.5°	862.9	880.7	912.9	911.0	907.3
35°	816.7	827.9	865.7	870.4	867.1
37.5°	772.9	783.1	818.6	829.3	826.5
40°	726.7	737.9	765.9	785.0	785.9
42.5°	680.9	691.6	714.5	742.1	742.1
45°	632.4	643.1	664.1	694.4	698.2
47.5°	584.8	596.0	616.5	646.8	652.9
50°	538.1	548.4	568.9	598.3	607.6
52.5°	489.6	500.8	520.8	547.9	561.4
55°	442.9	450.4	472.3	498.4	512.9
57.5°	394.4	401.4	426.1	448.5	463.4
60°	347.7	356.6	375.7	398.6	415.8
62.5°	302.9	312.2	328.6	348.6	368.2
65°	259.5	266.5	282.4	302.4	319.7
67.5°	217.5	223.5	239.4	253.4	271.6
70°	175.0	182.9	194.6	208.1	219.8
72.5°	140.9	144.2	154.0	163.8	175.9
75°	104.1	109.7	117.6	123.2	130.2
77.5°	74.7	77.9	82.6	87.3	93.8
80°	49.9	51.3	55.5	56.5	61.6
82.5°	30.3	31.3	32.2	32.7	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)