

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: P554692

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-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: P554692
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-LD4-2HI-35-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 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

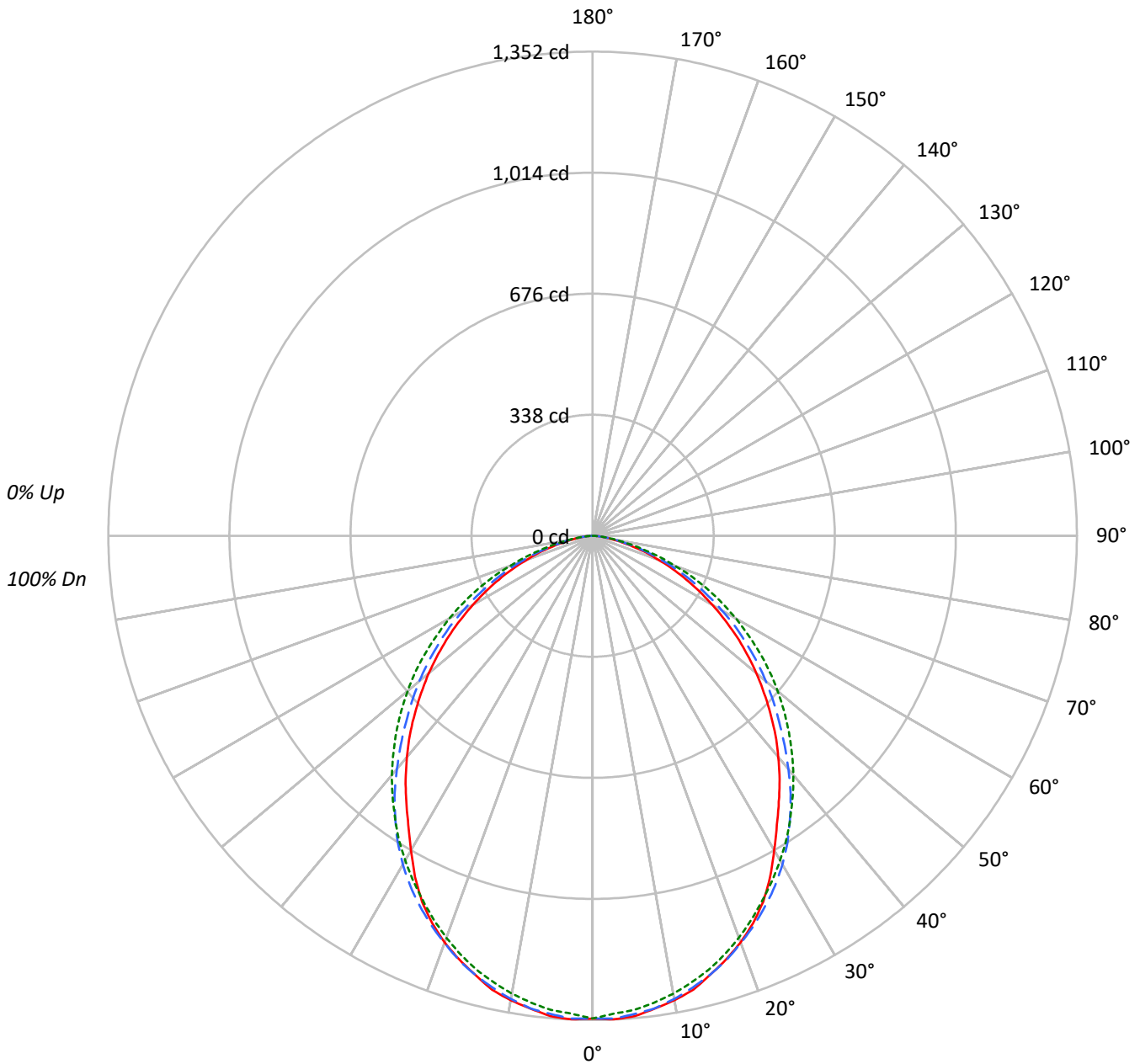
Lumens per Lamp: N/A
Luminaire Lumens: 3117.0 lumens
Efficiency: N/A
Efficacy: 72.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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

TEST NUMBER: P554692

CATALOG NUMBER: FUSL-12-2-LD4-2HI-35-UNV-81-86-EDD-90

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°	7255	7255	7255
5°	7274	7244	7182
10°	7197	7177	7095
15°	7070	7070	6989
20°	6920	6929	6840
25°	6692	6775	6667
30°	6302	6585	6504
35°	5955	6312	6322
40°	5665	5970	6127
45°	5341	5609	5896
50°	4999	5286	5646
55°	4612	4918	5340
60°	4153	4487	4966
65°	3666	3990	4517
70°	3056	3399	3838
75°	2402	2714	3005
80°	1717	1909	2120
85°	1118	1118	1056



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.9	4.1
10°-20°	356.6	11.4
20°-30°	521.0	16.7
30°-40°	591.4	19.0
40°-50°	570.9	18.3
50°-60°	471.0	15.1
60°-70°	313.7	10.1
70°-80°	140.4	4.5
80°-90°	25.1	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°	1004.5	32.2
0°-40°	1596.0	51.2
0°-60°	2637.9	84.6
0°-90°	3117.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3117.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1348	1348	1348	1348	1348	
5°	1346	1346	1341	1334	1329	127
15°	1269	1272	1269	1263	1254	358
25°	1127	1136	1141	1133	1123	516
35°	906	919	961	966	962	568
45°	702	714	737	771	775	541
55°	492	500	524	553	569	439
65°	288	296	313	336	355	285
75°	116	122	130	137	144	126
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1348.0	1348.0	1348.0	1348.0	1348.0
2.5°	1351.6	1352.2	1349.1	1340.8	1335.6
5°	1346.5	1346.0	1340.8	1333.5	1329.4
7.5°	1331.5	1332.5	1330.9	1320.6	1314.9
10°	1316.9	1317.5	1313.3	1305.0	1298.3
12.5°	1298.3	1297.8	1292.1	1287.9	1277.1
15°	1268.8	1271.9	1268.8	1263.1	1254.3
17.5°	1240.3	1240.3	1242.4	1232.5	1225.8
20°	1208.2	1209.8	1209.8	1202.0	1194.2
22.5°	1170.9	1175.6	1177.1	1168.8	1159.5
25°	1126.9	1135.7	1140.9	1132.6	1122.7
27.5°	1073.5	1087.0	1102.6	1096.3	1085.5
30°	1014.0	1033.7	1059.6	1054.4	1046.6
32.5°	957.5	977.2	1013.0	1010.9	1006.7
35°	906.3	918.7	960.7	965.8	962.2
37.5°	857.6	869.0	908.3	920.3	917.2
40°	806.3	818.8	849.8	871.1	872.1
42.5°	755.6	767.5	792.9	823.4	823.4
45°	701.7	713.6	736.9	770.6	774.7
47.5°	648.9	661.3	684.1	717.8	724.5
50°	597.1	608.5	631.3	663.9	674.3
52.5°	543.2	555.7	577.9	608.0	623.0
55°	491.5	499.7	524.1	553.1	569.1
57.5°	437.6	445.4	472.8	497.7	514.2
60°	385.8	395.7	416.9	442.3	461.4
62.5°	336.1	346.5	364.6	386.9	408.6
65°	287.9	295.7	313.3	335.6	354.7
67.5°	241.3	248.1	265.7	281.2	301.4
70°	194.2	203.0	216.0	231.0	243.9
72.5°	156.4	160.0	170.9	181.8	195.2
75°	115.5	121.7	130.5	136.7	144.5
77.5°	82.9	86.5	91.7	96.8	104.1
80°	55.4	57.0	61.6	62.7	68.4
82.5°	33.7	34.7	35.7	36.3	38.3
85°	18.1	18.1	18.1	17.1	17.1
87.5°	10.4	10.4	8.8	7.3	5.2
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)