

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: P555780

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-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: P555780
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-40-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 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

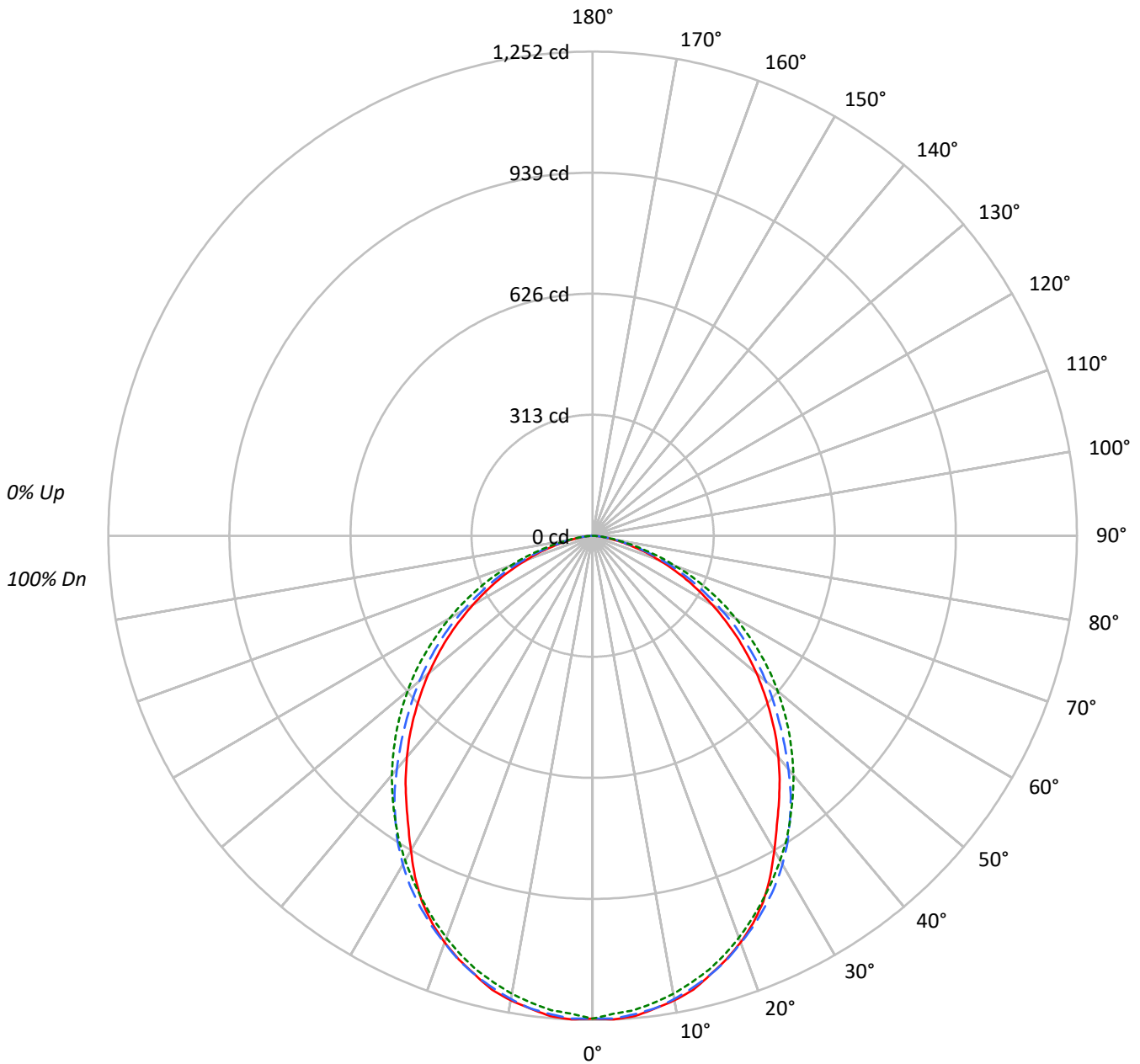
Lumens per Lamp: N/A
Luminaire Lumens: 2887.0 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	6720	6720	6720
5°	6737	6709	6652
10°	6666	6648	6572
15°	6548	6548	6473
20°	6409	6418	6335
25°	6198	6275	6175
30°	5837	6099	6024
35°	5515	5846	5855
40°	5247	5530	5675
45°	4947	5195	5462
50°	4630	4896	5229
55°	4271	4555	4946
60°	3846	4156	4600
65°	3396	3696	4185
70°	2831	3147	3555
75°	2225	2514	2782
80°	1590	1770	1962
85°	1037	1037	976



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.6	4.1
10°-20°	330.2	11.4
20°-30°	482.6	16.7
30°-40°	547.8	19.0
40°-50°	528.8	18.3
50°-60°	436.2	15.1
60°-70°	290.5	10.1
70°-80°	130.0	4.5
80°-90°	23.3	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°	930.4	32.2
0°-40°	1478.2	51.2
0°-60°	2443.3	84.6
0°-90°	2887.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2887.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1249	1249	1249	1249	1249	
5°	1247	1247	1242	1235	1231	118
15°	1175	1178	1175	1170	1162	331
25°	1044	1052	1057	1049	1040	478
35°	839	851	890	895	891	526
45°	650	661	683	714	718	501
55°	455	463	485	512	527	406
65°	267	274	290	311	329	264
75°	107	113	121	127	134	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1248.6	1248.6	1248.6	1248.6	1248.6
2.5°	1251.9	1252.4	1249.5	1241.8	1237.0
5°	1247.1	1246.6	1241.8	1235.1	1231.3
7.5°	1233.2	1234.2	1232.7	1223.1	1217.9
10°	1219.8	1220.3	1216.4	1208.7	1202.5
12.5°	1202.5	1202.0	1196.7	1192.9	1182.8
15°	1175.2	1178.0	1175.2	1169.9	1161.7
17.5°	1148.8	1148.8	1150.7	1141.6	1135.4
20°	1119.0	1120.5	1120.5	1113.3	1106.1
22.5°	1084.5	1088.8	1090.3	1082.6	1074.0
25°	1043.7	1051.9	1056.7	1049.0	1039.9
27.5°	994.3	1006.8	1021.2	1015.4	1005.4
30°	939.2	957.4	981.4	976.6	969.4
32.5°	886.9	905.1	938.2	936.3	932.5
35°	839.4	850.9	889.8	894.6	891.2
37.5°	794.3	804.9	841.3	852.4	849.5
40°	746.8	758.3	787.1	806.8	807.7
42.5°	699.8	710.9	734.4	762.7	762.7
45°	649.9	661.0	682.6	713.7	717.6
47.5°	601.0	612.5	633.6	664.8	671.0
50°	553.0	563.6	584.7	614.9	624.5
52.5°	503.2	514.7	535.3	563.1	577.0
55°	455.2	462.9	485.4	512.3	527.1
57.5°	405.3	412.5	437.9	461.0	476.3
60°	357.3	366.5	386.1	409.6	427.4
62.5°	311.3	320.9	337.7	358.3	378.5
65°	266.7	273.9	290.2	310.8	328.6
67.5°	223.5	229.8	246.1	260.5	279.2
70°	179.9	188.0	200.0	213.9	225.9
72.5°	144.9	148.2	158.3	168.4	180.8
75°	107.0	112.7	120.9	126.6	133.8
77.5°	76.7	80.1	84.9	89.7	96.4
80°	51.3	52.8	57.1	58.0	63.3
82.5°	31.2	32.1	33.1	33.6	35.5
85°	16.8	16.8	16.8	15.8	15.8
87.5°	9.6	9.6	8.2	6.7	4.8
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)