

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: P555850

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-81-94-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: P555850
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-50-UNV-81-94-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

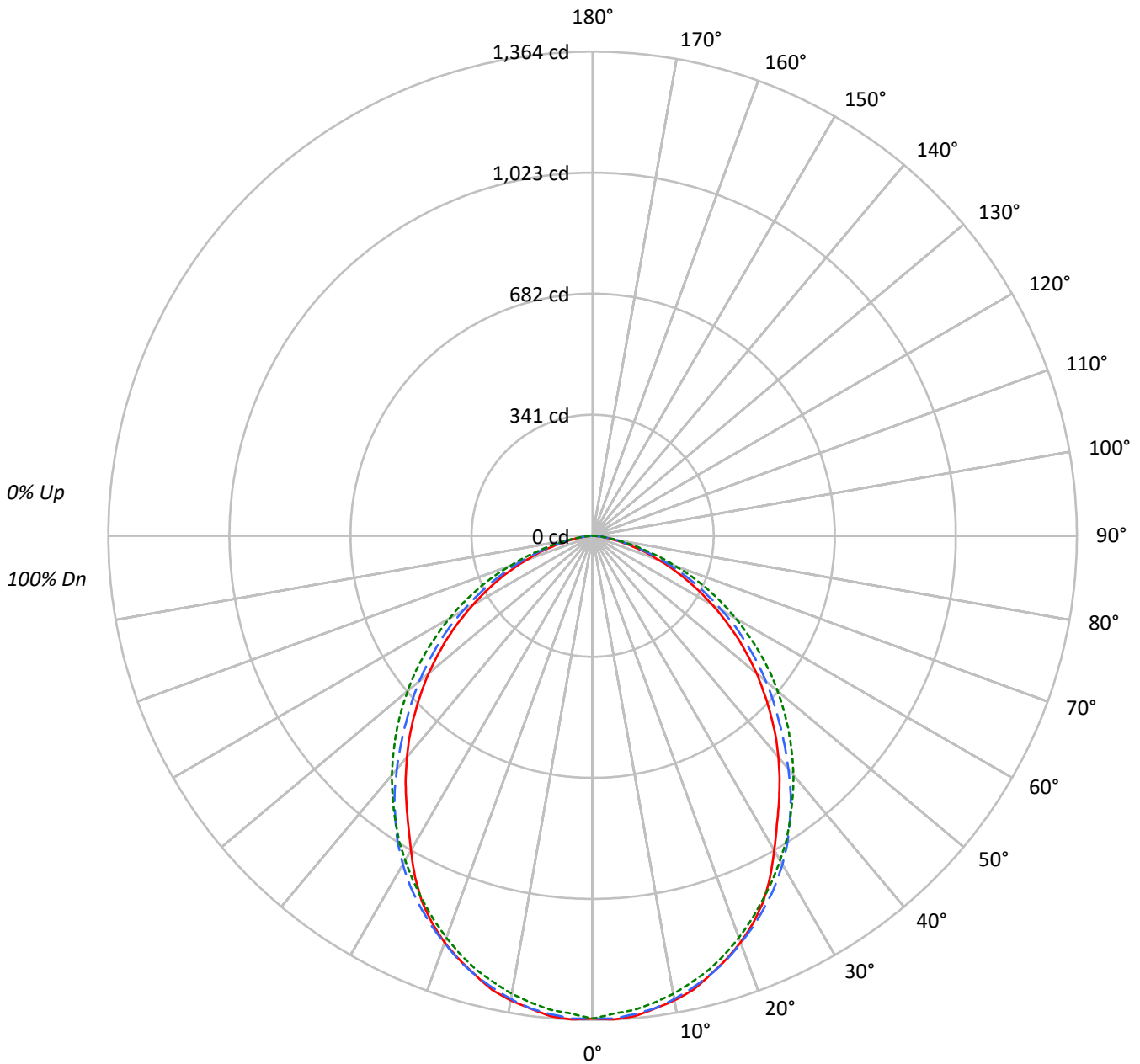
Lumens per Lamp: N/A
Luminaire Lumens: 3145.0 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (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°	7320	7320	7320
5°	7340	7309	7246
10°	7262	7242	7159
15°	7133	7133	7052
20°	6982	6991	6901
25°	6752	6836	6727
30°	6358	6644	6563
35°	6008	6368	6379
40°	5716	6024	6182
45°	5389	5660	5950
50°	5045	5333	5696
55°	4653	4962	5389
60°	4190	4527	5012
65°	3699	4025	4558
70°	3083	3429	3873
75°	2423	2739	3032
80°	1733	1928	2139
85°	1130	1130	1062



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	4.1
10°-20°	359.8	11.4
20°-30°	525.7	16.7
30°-40°	596.8	19.0
40°-50°	576.1	18.3
50°-60°	475.2	15.1
60°-70°	316.5	10.1
70°-80°	141.6	4.5
80°-90°	25.3	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°	1013.5	32.2
0°-40°	1610.3	51.2
0°-60°	2661.6	84.6
0°-90°	3145.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3145.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1360	1360	1360	1360	1360	
5°	1359	1358	1353	1346	1341	129
15°	1280	1283	1280	1274	1266	361
25°	1137	1146	1151	1143	1133	521
35°	914	927	969	974	971	573
45°	708	720	744	778	782	546
55°	496	504	529	558	574	443
65°	290	298	316	339	358	288
75°	116	123	132	138	146	127
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1360.1	1360.1	1360.1	1360.1	1360.1
2.5°	1363.8	1364.3	1361.2	1352.8	1347.6
5°	1358.6	1358.0	1352.8	1345.5	1341.3
7.5°	1343.4	1344.5	1342.9	1332.4	1326.7
10°	1328.8	1329.3	1325.1	1316.8	1310.0
12.5°	1310.0	1309.4	1303.7	1299.5	1288.5
15°	1280.2	1283.3	1280.2	1274.4	1265.6
17.5°	1251.4	1251.4	1253.5	1243.6	1236.8
20°	1219.0	1220.6	1220.6	1212.8	1204.9
22.5°	1181.4	1186.1	1187.7	1179.3	1169.9
25°	1137.0	1145.9	1151.1	1142.8	1132.8
27.5°	1083.2	1096.8	1112.5	1106.2	1095.2
30°	1023.1	1043.0	1069.1	1063.9	1056.0
32.5°	966.1	986.0	1022.1	1020.0	1015.8
35°	914.4	927.0	969.3	974.5	970.9
37.5°	865.3	876.8	916.5	928.5	925.4
40°	813.6	826.1	857.5	878.9	879.9
42.5°	762.4	774.4	800.0	830.8	830.8
45°	708.0	720.0	743.6	777.5	781.7
47.5°	654.7	667.3	690.3	724.2	731.0
50°	602.5	614.0	637.0	669.9	680.3
52.5°	548.1	560.7	583.1	613.4	628.6
55°	495.9	504.2	528.8	558.1	574.3
57.5°	441.5	449.4	477.1	502.1	518.9
60°	389.3	399.2	420.6	446.2	465.6
62.5°	339.1	349.6	367.9	390.3	412.3
65°	290.5	298.4	316.1	338.6	357.9
67.5°	243.5	250.3	268.1	283.7	304.1
70°	195.9	204.8	217.9	233.0	246.1
72.5°	157.8	161.5	172.4	183.4	197.0
75°	116.5	122.8	131.7	137.9	145.8
77.5°	83.6	87.3	92.5	97.7	105.0
80°	55.9	57.5	62.2	63.2	69.0
82.5°	34.0	35.0	36.1	36.6	38.7
85°	18.3	18.3	18.3	17.2	17.2
87.5°	10.5	10.5	8.9	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)