

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: P554636

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-96-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: P554636
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-30-UNV-81-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

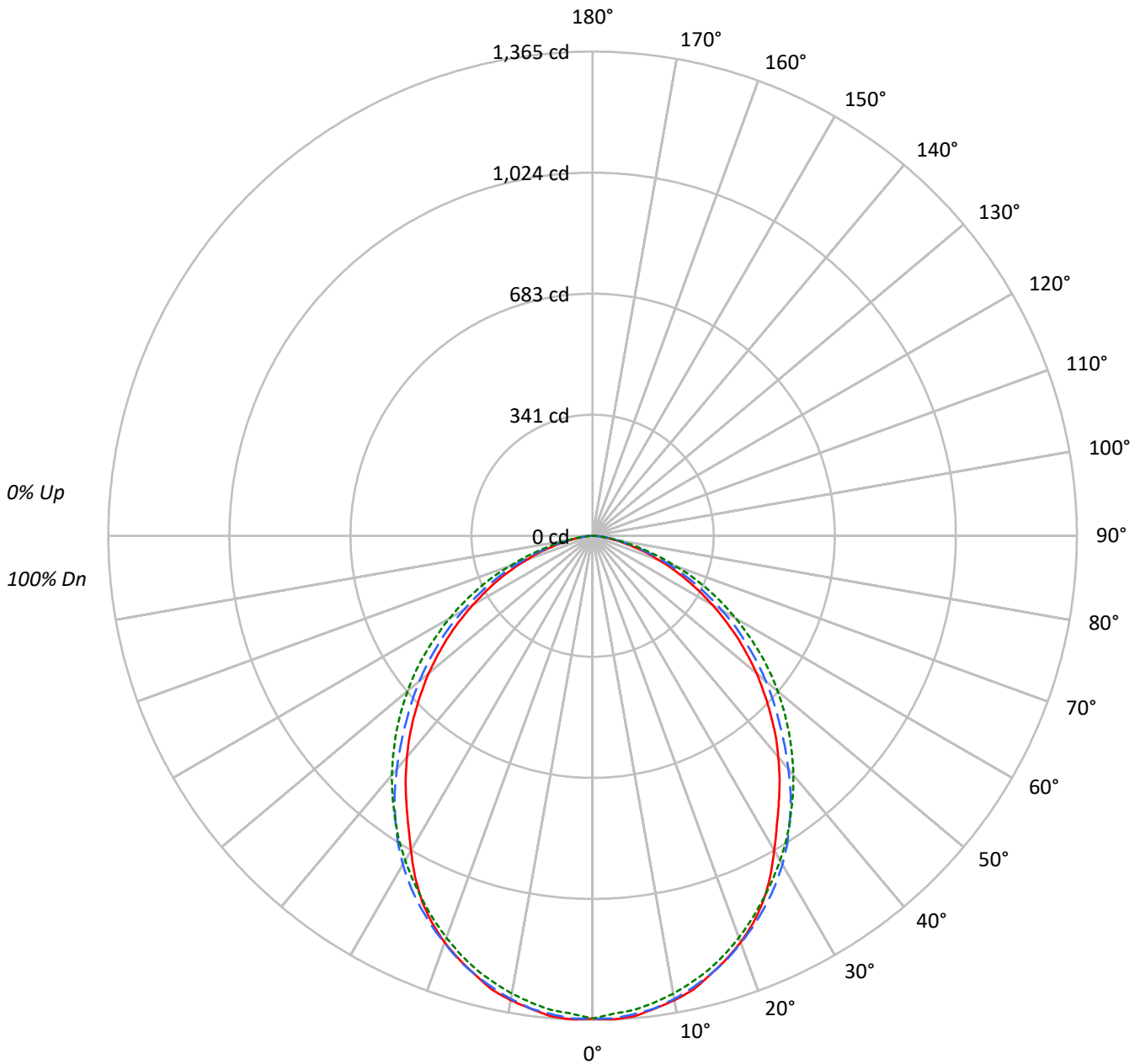
Lumens per Lamp: N/A
Luminaire Lumens: 3147.0 lumens
Efficiency: N/A
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (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°	7325	7325	7325
5°	7344	7313	7251
10°	7266	7247	7163
15°	7137	7137	7056
20°	6986	6995	6905
25°	6756	6840	6732
30°	6362	6648	6567
35°	6012	6372	6383
40°	5720	6028	6186
45°	5393	5663	5954
50°	5048	5337	5700
55°	4656	4965	5392
60°	4193	4531	5015
65°	3702	4028	4562
70°	3086	3430	3876
75°	2425	2741	3034
80°	1733	1928	2139
85°	1130	1130	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	4.1
10°-20°	360.0	11.4
20°-30°	526.1	16.7
30°-40°	597.1	19.0
40°-50°	576.4	18.3
50°-60°	475.5	15.1
60°-70°	316.7	10.1
70°-80°	141.7	4.5
80°-90°	25.4	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°	1014.2	32.2
0°-40°	1611.3	51.2
0°-60°	2663.3	84.6
0°-90°	3147.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3147.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1361	1361	1361	1361	1361	
5°	1359	1359	1354	1346	1342	129
15°	1281	1284	1281	1275	1266	361
25°	1138	1147	1152	1144	1134	521
35°	915	928	970	975	972	573
45°	708	720	744	778	782	547
55°	496	505	529	558	575	443
65°	291	299	316	339	358	288
75°	117	123	132	138	146	128
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°	1361.0	<i>1361.0</i>	1361.0	1361.0	1361.0
2.5°	<i>1364.7</i>	<i>1365.2</i>	<i>1362.0</i>	<i>1353.7</i>	<i>1348.4</i>
5°	1359.4	<i>1358.9</i>	1353.7	1346.4	1342.2
7.5°	1344.3	<i>1345.3</i>	1343.7	1333.3	1327.5
10°	1329.6	<i>1330.1</i>	1326.0	1317.6	1310.8
12.5°	1310.8	<i>1310.3</i>	1304.5	1300.3	1289.4
15°	1281.0	<i>1284.1</i>	1281.0	1275.2	1266.4
17.5°	1252.2	<i>1252.2</i>	1254.3	1244.4	1237.6
20°	1219.8	<i>1221.4</i>	1221.4	1213.6	1205.7
22.5°	1182.2	<i>1186.9</i>	1188.5	1180.1	1170.7
25°	1137.7	<i>1146.6</i>	1151.9	1143.5	1133.6
27.5°	1083.9	<i>1097.5</i>	1113.2	1106.9	1095.9
30°	1023.8	<i>1043.6</i>	1069.8	1064.5	1056.7
32.5°	966.8	<i>986.6</i>	1022.7	1020.6	1016.4
35°	915.0	<i>927.5</i>	969.9	975.1	971.5
37.5°	865.9	<i>877.4</i>	917.1	929.1	926.0
40°	814.1	<i>826.6</i>	858.0	879.4	880.5
42.5°	762.8	<i>774.9</i>	800.5	831.3	831.3
45°	708.5	<i>720.5</i>	744.0	778.0	782.2
47.5°	655.1	<i>667.7</i>	690.7	724.7	731.5
50°	602.9	<i>614.4</i>	637.4	670.3	680.8
52.5°	548.5	<i>561.0</i>	583.5	613.8	629.0
55°	496.2	<i>504.6</i>	529.1	558.4	574.6
57.5°	441.8	<i>449.7</i>	477.4	502.5	519.2
60°	389.5	<i>399.5</i>	420.9	446.5	465.9
62.5°	339.3	<i>349.8</i>	368.1	390.6	412.5
65°	290.7	<i>298.6</i>	316.3	338.8	358.2
67.5°	243.7	<i>250.4</i>	268.2	283.9	304.3
70°	196.1	<i>205.0</i>	218.0	233.2	246.3
72.5°	157.9	<i>161.6</i>	172.5	183.5	197.1
75°	116.6	<i>122.9</i>	131.8	138.0	145.9
77.5°	83.7	<i>87.3</i>	92.5	97.8	105.1
80°	55.9	<i>57.5</i>	62.2	63.3	69.0
82.5°	34.0	<i>35.0</i>	36.1	36.6	38.7
85°	18.3	<i>18.3</i>	18.3	17.3	17.3
87.5°	10.5	<i>10.5</i>	8.9	7.3	5.2
90°	0.0	<i>0.0</i>	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)