

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: P556763

Luminaire Tested: **FUSL-12-4-LD4-1STD-35-UNV-82-94-EDD**

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: P556763
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-12-4-LD4-1STD-35-UNV-82-94-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDES
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

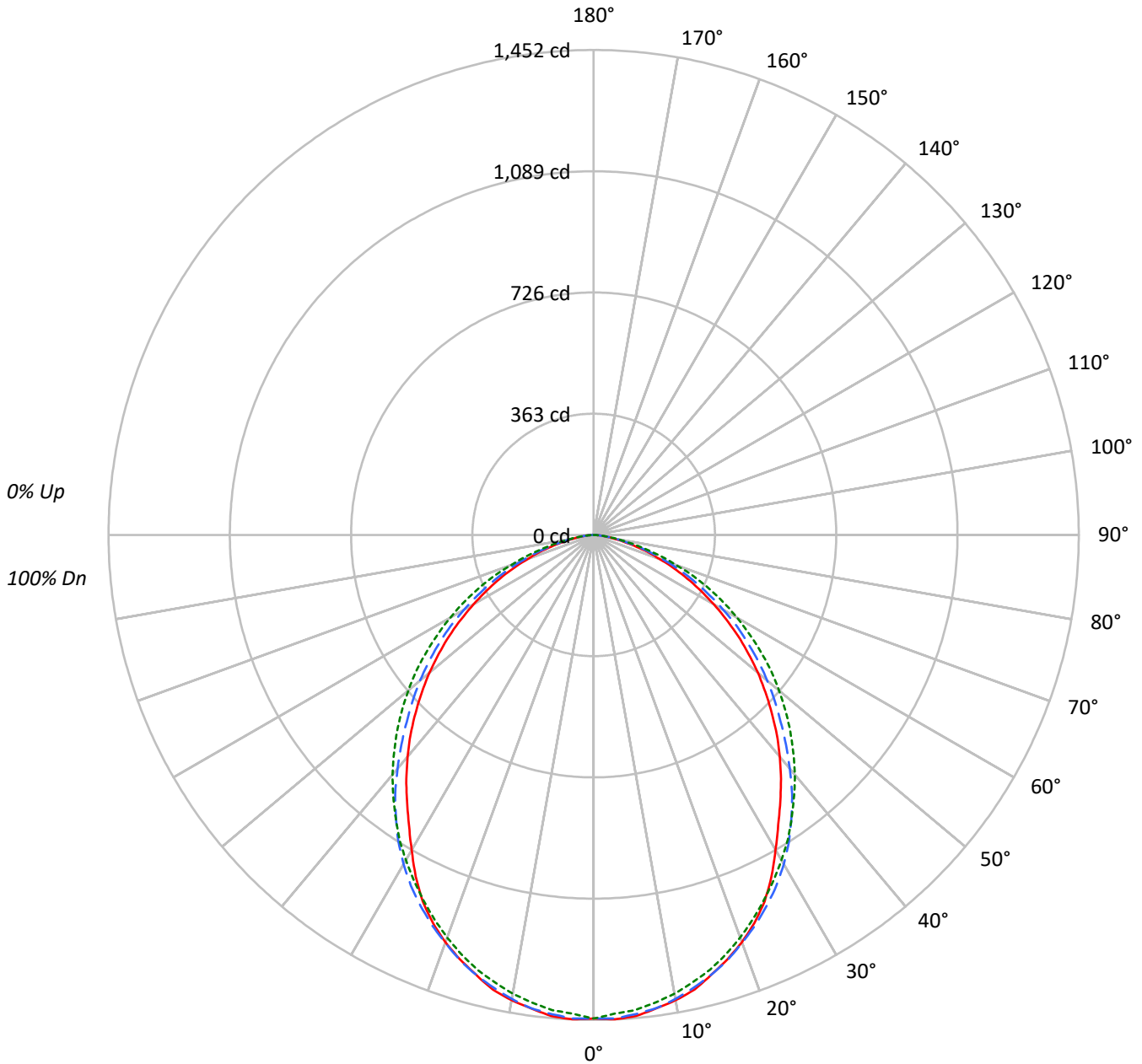
Lumens per Lamp: N/A
Luminaire Lumens: 3348.0 lumens
Efficiency: N/A
Efficacy: 100.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	3896	3896	3896
5°	3907	3890	3857
10°	3865	3855	3810
15°	3797	3797	3753
20°	3716	3721	3673
25°	3594	3638	3581
30°	3384	3536	3493
35°	3198	3390	3395
40°	3042	3207	3290
45°	2868	3012	3167
50°	2685	2839	3032
55°	2477	2641	2868
60°	2230	2410	2667
65°	1969	2143	2426
70°	1641	1825	2061
75°	1289	1458	1614
80°	922	1026	1137
85°	602	602	568



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	4.1
10°-20°	383.0	11.4
20°-30°	559.7	16.7
30°-40°	635.3	19.0
40°-50°	613.3	18.3
50°-60°	505.9	15.1
60°-70°	336.9	10.1
70°-80°	150.8	4.5
80°-90°	27.0	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°	1079.0	32.2
0°-40°	1714.2	51.2
0°-60°	2833.4	84.6
0°-90°	3348.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1448	1448	1448	1448	1448	
5°	1446	1446	1440	1432	1428	137
15°	1363	1366	1363	1357	1347	384
25°	1210	1220	1225	1216	1206	554
35°	973	987	1032	1037	1034	610
45°	754	766	792	828	832	582
55°	528	537	563	594	611	471
65°	309	318	336	360	381	307
75°	124	131	140	147	155	136
85°	20	20	20	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1447.9	1447.9	1447.9	1447.9	1447.9
2.5°	1451.8	1452.4	1449.0	1440.1	1434.6
5°	1446.3	1445.7	1440.1	1432.3	1427.9
7.5°	1430.1	1431.2	1429.6	1418.4	1412.3
10°	1414.5	1415.1	1410.7	1401.8	1394.5
12.5°	1394.5	1394.0	1387.8	1383.4	1371.7
15°	1362.8	1366.2	1362.8	1356.7	1347.2
17.5°	1332.2	1332.2	1334.4	1323.9	1316.6
20°	1297.7	1299.4	1299.4	1291.1	1282.7
22.5°	1257.7	1262.7	1264.4	1255.5	1245.4
25°	1210.4	1219.9	1225.4	1216.5	1206.0
27.5°	1153.1	1167.6	1184.3	1177.6	1165.9
30°	1089.1	1110.3	1138.1	1132.5	1124.2
32.5°	1028.5	1049.6	1088.0	1085.8	1081.4
35°	973.4	986.8	1031.8	1037.4	1033.5
37.5°	921.2	933.4	975.7	988.5	985.1
40°	866.1	879.4	912.8	935.6	936.7
42.5°	811.6	824.4	851.6	884.4	884.4
45°	753.7	766.5	791.5	827.7	832.2
47.5°	697.0	710.3	734.8	771.0	778.2
50°	641.4	653.6	678.1	713.1	724.2
52.5°	583.5	596.9	620.8	653.0	669.2
55°	527.9	536.8	562.9	594.1	611.3
57.5°	470.0	478.4	507.9	534.6	552.4
60°	414.4	425.0	447.8	475.0	495.6
62.5°	361.0	372.1	391.6	415.5	438.9
65°	309.3	317.6	336.5	360.5	381.0
67.5°	259.2	266.4	285.4	302.0	323.7
70°	208.6	218.1	232.0	248.1	262.0
72.5°	168.0	171.9	183.6	195.2	209.7
75°	124.0	130.7	140.2	146.9	155.2
77.5°	89.0	92.9	98.5	104.0	111.8
80°	59.5	61.2	66.2	67.3	73.4
82.5°	36.2	37.3	38.4	38.9	41.2
85°	19.5	19.5	19.5	18.4	18.4
87.5°	11.1	11.1	9.5	7.8	5.6
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)