

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: P556915

Luminaire Tested: **FUSL-12-4-LD4-2HI-30-UNV-80-85-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: P556915
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-LD4-2HI-30-UNV-80-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

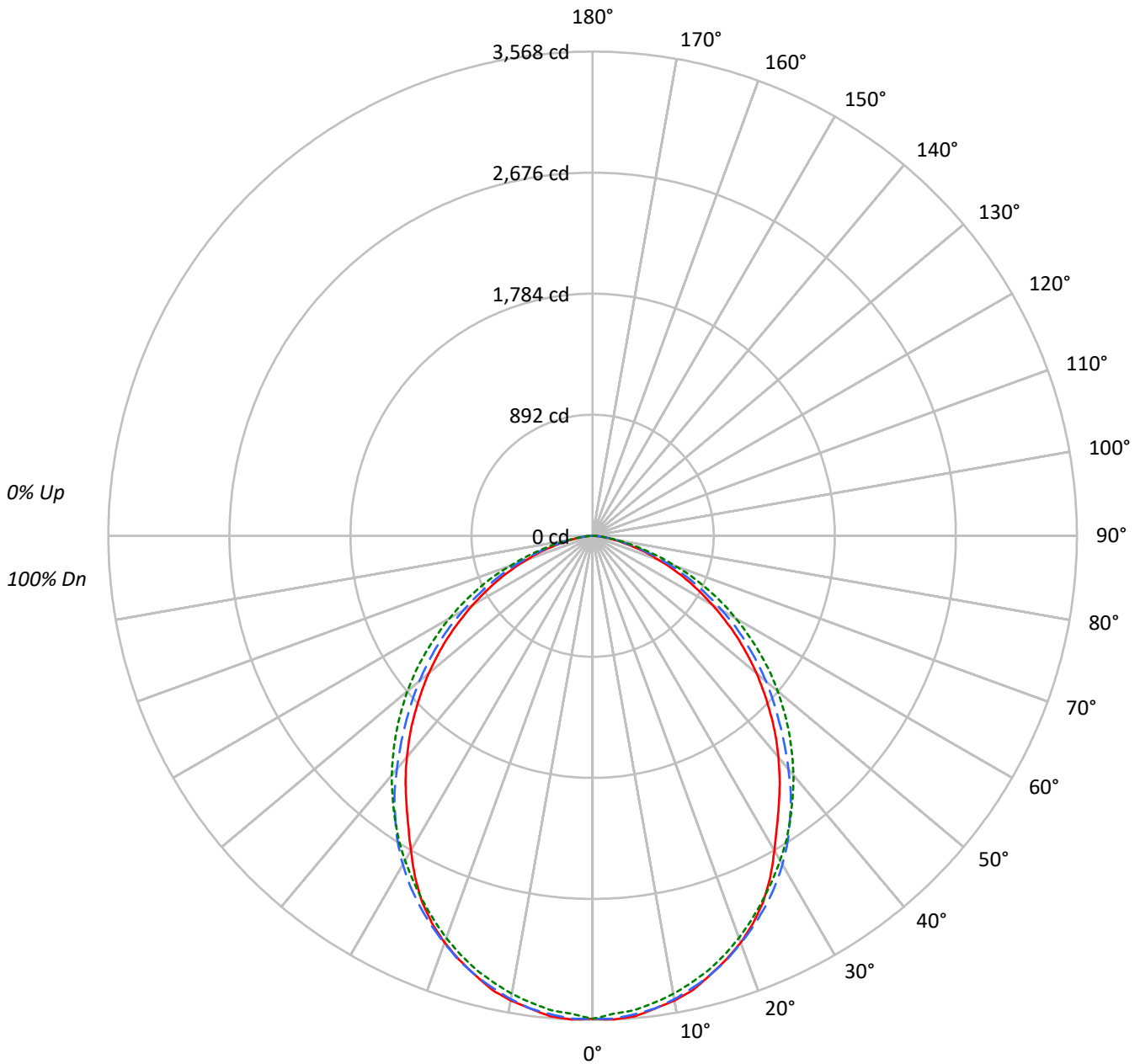
Lumens per Lamp: N/A
Luminaire Lumens: 8229.0 lumens
Efficiency: N/A
Efficacy: 95.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 86.4
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°	9577	9577	9577
5°	9602	9562	9480
10°	9500	9474	9366
15°	9332	9332	9225
20°	9134	9146	9029
25°	8833	8943	8801
30°	8318	8692	8586
35°	7860	8332	8345
40°	7478	7881	8088
45°	7050	7404	7784
50°	6599	6977	7452
55°	6087	6491	7050
60°	5482	5923	6556
65°	4840	5267	5963
70°	4034	4485	5067
75°	3170	3582	3965
80°	2267	2521	2797
85°	1479	1479	1392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	4.1
10°-20°	941.3	11.4
20°-30°	1375.6	16.7
30°-40°	1561.4	19.0
40°-50°	1507.3	18.3
50°-60°	1243.4	15.1
60°-70°	828.0	10.1
70°-80°	370.5	4.5
80°-90°	66.3	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°	2652.0	32.2
0°-40°	4213.4	51.2
0°-60°	6964.2	84.6
0°-90°	8229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8229.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3559	3559	3559	3559	3559	
5°	3555	3553	3540	3520	3510	336
15°	3350	3358	3350	3335	3311	944
25°	2975	2998	3012	2990	2964	1362
35°	2393	2425	2536	2550	2540	1499
45°	1853	1884	1946	2034	2045	1429
55°	1298	1319	1384	1460	1503	1158
65°	760	781	827	886	936	754
75°	305	321	344	361	381	333
85°	48	48	48	45	45	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3558.8	3558.8	3558.8	3558.8	3558.8
2.5°	3568.4	3569.8	3561.6	3539.7	3526.0
5°	3554.7	3553.4	3539.7	3520.5	3509.6
7.5°	3515.1	3517.8	3513.7	3486.4	3471.3
10°	3476.8	3478.2	3467.2	3445.4	3427.6
12.5°	3427.6	3426.2	3411.2	3400.2	3371.5
15°	3349.6	3357.9	3349.6	3334.6	3311.4
17.5°	3274.5	3274.5	3279.9	3253.9	3236.2
20°	3189.7	3193.8	3193.8	3173.3	3152.8
22.5°	3091.2	3103.6	3107.7	3085.8	3061.2
25°	2975.0	2998.3	3011.9	2990.1	2964.1
27.5°	2834.2	2869.8	2910.8	2894.4	2865.7
30°	2677.0	2728.9	2797.3	2783.6	2763.1
32.5°	2528.0	2579.9	2674.2	2668.8	2657.8
35°	2392.6	2425.4	2536.2	2549.8	2540.3
37.5°	2264.1	2294.2	2398.1	2429.5	2421.3
40°	2128.7	2161.5	2243.6	2299.6	2302.4
42.5°	1994.7	2026.2	2093.2	2173.9	2173.9
45°	1852.6	1884.0	1945.5	2034.4	2045.3
47.5°	1713.1	1745.9	1806.1	1894.9	1912.7
50°	1576.4	1606.5	1666.6	1752.8	1780.1
52.5°	1434.2	1467.0	1525.8	1605.1	1644.7
55°	1297.5	1319.4	1383.6	1460.2	1502.6
57.5°	1155.3	1175.8	1248.3	1313.9	1357.6
60°	1018.6	1044.5	1100.6	1167.6	1218.2
62.5°	887.3	914.7	962.5	1021.3	1078.7
65°	760.2	780.7	827.2	885.9	936.5
67.5°	637.1	654.9	701.4	742.4	795.7
70°	512.7	535.9	570.1	609.8	644.0
72.5°	412.9	422.5	451.2	479.9	515.4
75°	304.9	321.3	344.5	360.9	381.4
77.5°	218.8	228.3	242.0	255.7	274.8
80°	146.3	150.4	162.7	165.4	180.5
82.5°	88.9	91.6	94.3	95.7	101.2
85°	47.9	47.9	47.9	45.1	45.1
87.5°	27.3	27.3	23.2	19.1	13.7
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)