

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: P556925

Luminaire Tested: **FUSL-12-4-LD4-2HI-30-UNV-80-96-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: P556925
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-80-96-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

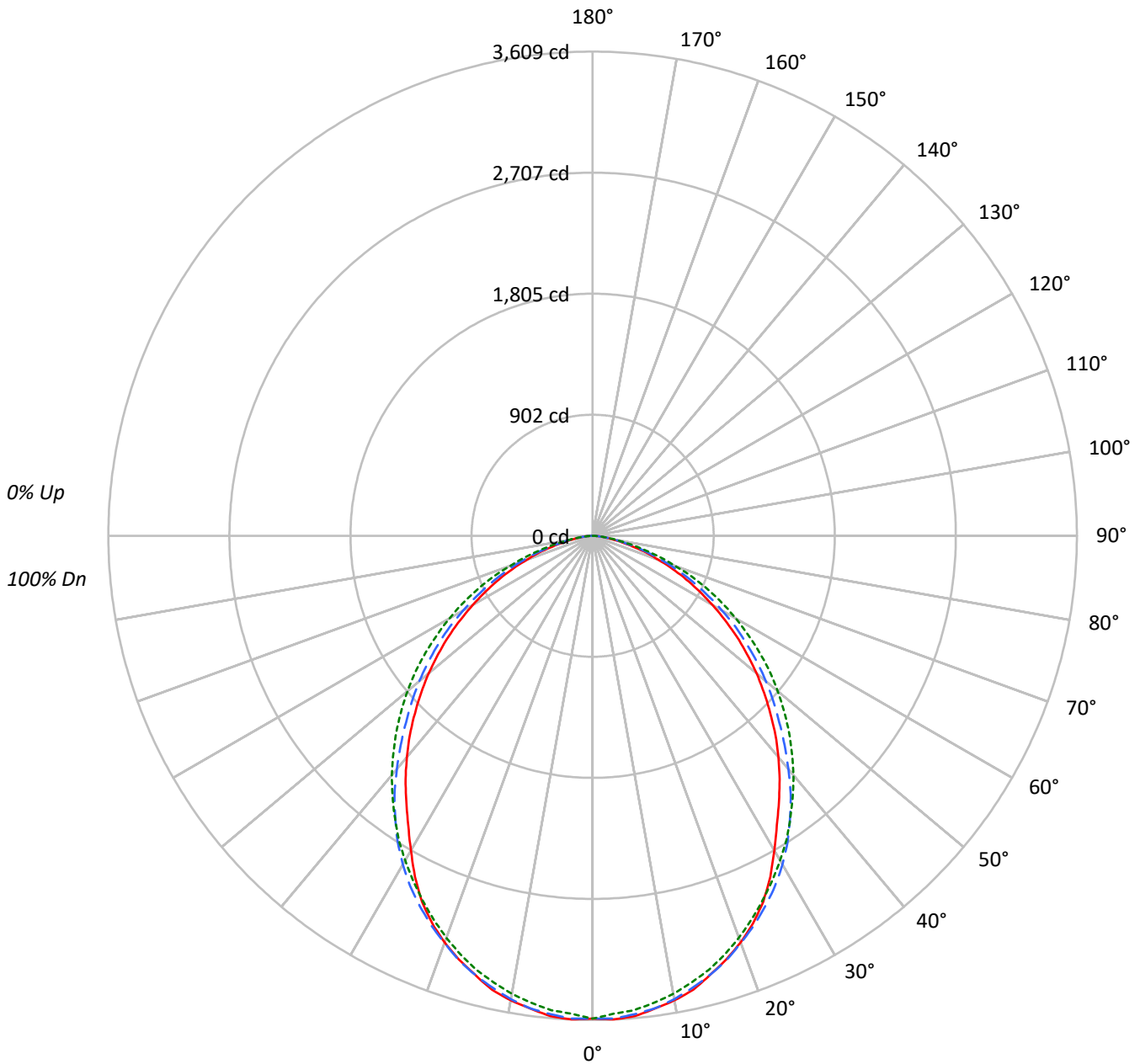
Lumens per Lamp: N/A
Luminaire Lumens: 8322.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	9685	9685	9685
5°	9711	9670	9588
10°	9608	9581	9472
15°	9437	9437	9329
20°	9237	9249	9131
25°	8933	9044	8900
30°	8412	8790	8683
35°	7949	8426	8439
40°	7562	7970	8179
45°	7130	7488	7872
50°	6674	7056	7536
55°	6156	6564	7129
60°	5544	5990	6630
65°	4895	5326	6031
70°	4080	4537	5124
75°	3205	3622	4011
80°	2292	2549	2828
85°	1494	1494	1408



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.9	4.1
10°-20°	952.0	11.4
20°-30°	1391.1	16.7
30°-40°	1579.1	19.0
40°-50°	1524.4	18.3
50°-60°	1257.5	15.1
60°-70°	837.4	10.1
70°-80°	374.7	4.5
80°-90°	67.0	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°	2681.9	32.2
0°-40°	4261.0	51.2
0°-60°	7042.9	84.6
0°-90°	8322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	8322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3599	3599	3599	3599	3599	
5°	3595	3594	3580	3560	3549	340
15°	3388	3396	3388	3372	3349	955
25°	3009	3032	3046	3024	2998	1378
35°	2420	2453	2565	2579	2569	1516
45°	1874	1905	1968	2057	2068	1446
55°	1312	1334	1399	1477	1520	1171
65°	769	790	836	896	947	762
75°	308	325	348	365	386	337
85°	48	48	48	46	46	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3599.1	3599.1	3599.1	3599.1	3599.1
2.5°	3608.7	3610.1	3601.8	3579.7	3565.9
5°	3594.9	3593.5	3579.7	3560.3	3549.3
7.5°	3554.8	3557.6	3553.4	3525.8	3510.6
10°	3516.1	3517.5	3506.4	3484.3	3466.3
12.5°	3466.3	3464.9	3449.7	3438.7	3409.6
15°	3387.5	3395.8	3387.5	3372.3	3348.8
17.5°	3311.5	3311.5	3317.0	3290.7	3272.7
20°	3225.7	3229.9	3229.9	3209.1	3188.4
22.5°	3126.2	3138.6	3142.8	3120.7	3095.8
25°	3008.7	3032.2	3046.0	3023.9	2997.6
27.5°	2866.2	2902.2	2943.7	2927.1	2898.0
30°	2707.2	2759.8	2828.9	2815.1	2794.3
32.5°	2556.5	2609.1	2704.5	2698.9	2687.9
35°	2419.6	2452.8	2564.8	2578.7	2569.0
37.5°	2289.7	2320.1	2425.2	2457.0	2448.7
40°	2152.8	2186.0	2268.9	2325.6	2328.4
42.5°	2017.3	2049.1	2116.8	2198.4	2198.4
45°	1873.5	1905.3	1967.5	2057.4	2068.5
47.5°	1732.5	1765.7	1826.5	1916.4	1934.3
50°	1594.2	1624.6	1685.5	1772.6	1800.2
52.5°	1450.4	1483.6	1543.0	1623.2	1663.3
55°	1312.1	1334.3	1399.2	1476.7	1519.5
57.5°	1168.3	1189.1	1262.4	1328.7	1373.0
60°	1030.1	1056.3	1113.0	1180.8	1231.9
62.5°	897.3	925.0	973.4	1032.8	1090.9
65°	768.8	789.5	836.5	896.0	947.1
67.5°	644.3	662.3	709.3	750.8	804.7
70°	518.5	542.0	576.6	616.7	651.2
72.5°	417.6	427.2	456.3	485.3	521.3
75°	308.3	324.9	348.4	365.0	385.8
77.5°	221.2	230.9	244.7	258.6	277.9
80°	147.9	152.1	164.5	167.3	182.5
82.5°	89.9	92.6	95.4	96.8	102.3
85°	48.4	48.4	48.4	45.6	45.6
87.5°	27.7	27.7	23.5	19.4	13.8
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)