

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: P557823

Luminaire Tested: **FUSL-12-4-LD4-3HI-40-UNV-80-97-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: P557823
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-LD4-3HI-40-UNV-80-97-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

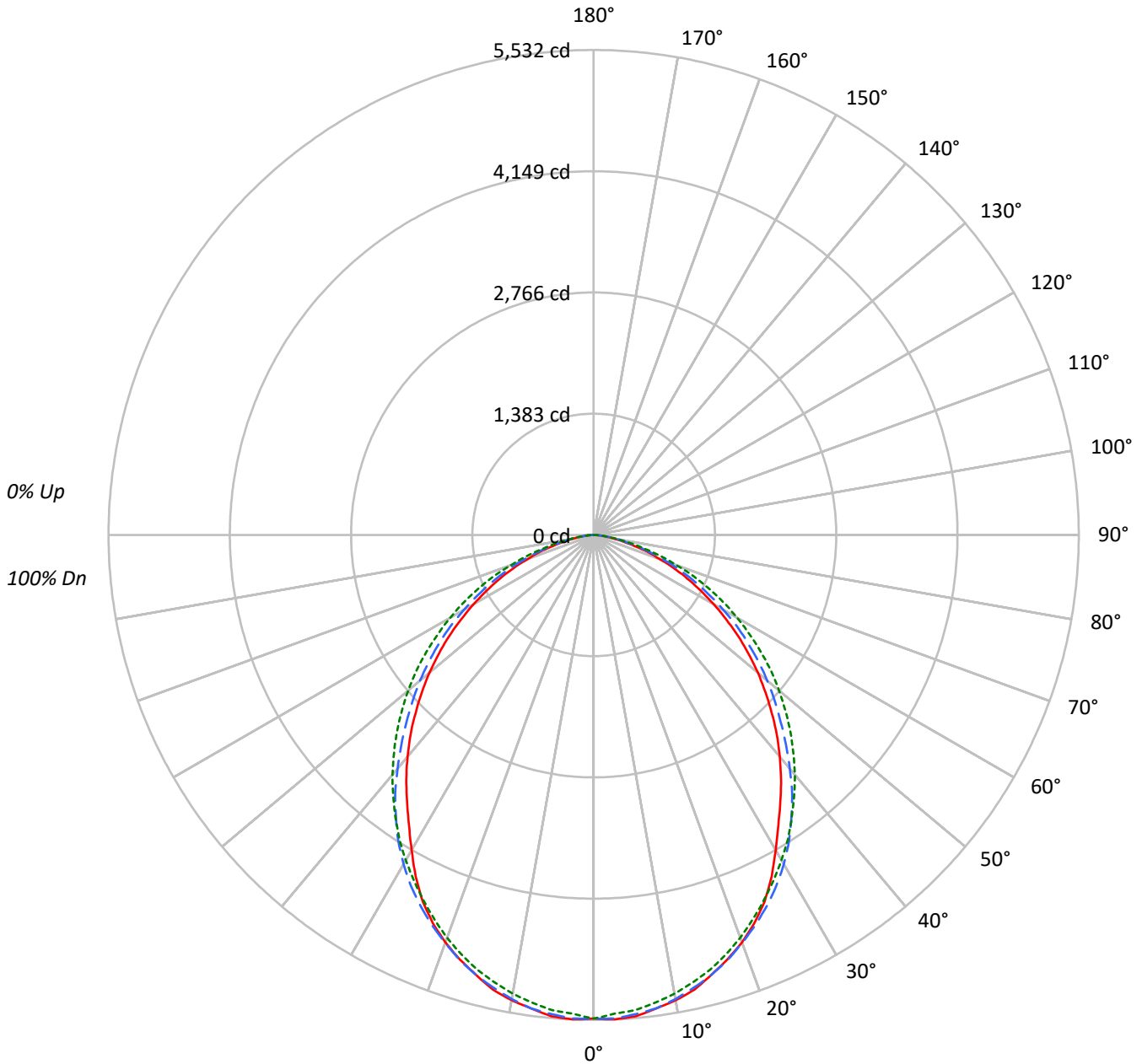
Lumens per Lamp: N/A
Luminaire Lumens: 12758.0 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
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°	14847	14847	14847
5°	14887	14824	14698
10°	14729	14689	14520
15°	14468	14468	14302
20°	14161	14180	13998
25°	13695	13865	13645
30°	12896	13476	13311
35°	12186	12917	12938
40°	11593	12219	12539
45°	10930	11479	12068
50°	10232	10817	11554
55°	9438	10064	10929
60°	8499	9183	10164
65°	7504	8166	9245
70°	6254	6954	7855
75°	4915	5554	6149
80°	3515	3908	4336
85°	2291	2291	2158



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	519.5	4.1
10°-20°	1459.4	11.4
20°-30°	2132.7	16.7
30°-40°	2420.8	19.0
40°-50°	2336.9	18.3
50°-60°	1927.8	15.1
60°-70°	1283.7	10.1
70°-80°	574.5	4.5
80°-90°	102.8	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°	4111.5	32.2
0°-40°	6532.3	51.2
0°-60°	10797.0	84.6
0°-90°	12758.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12758.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5518	5518	5518	5518	5518	
5°	5511	5509	5488	5458	5441	522
15°	5193	5206	5193	5170	5134	1464
25°	4612	4648	4670	4636	4595	2112
35°	3709	3760	3932	3953	3938	2324
45°	2872	2921	3016	3154	3171	2216
55°	2012	2046	2145	2264	2330	1795
65°	1178	1210	1282	1374	1452	1169
75°	473	498	534	560	591	517
85°	74	74	74	70	70	100
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5517.5	5517.5	5517.5	5517.5	5517.5
2.5°	5532.3	5534.5	5521.7	5487.8	5466.6
5°	5511.1	5509.0	5487.8	5458.2	5441.2
7.5°	5449.7	5453.9	5447.6	5405.2	5381.8
10°	5390.3	5392.4	5375.5	5341.6	5314.0
12.5°	5314.0	5311.9	5288.6	5271.6	5227.1
15°	5193.2	5205.9	5193.2	5169.9	5133.8
17.5°	5076.6	5076.6	5085.1	5044.8	5017.3
20°	4945.2	4951.6	4951.6	4919.8	4888.0
22.5°	4792.6	4811.7	4818.0	4784.1	4745.9
25°	4612.4	4648.4	4669.6	4635.7	4595.4
27.5°	4394.1	4449.2	4512.8	4487.3	4442.8
30°	4150.3	4230.9	4336.8	4315.7	4283.9
32.5°	3919.3	3999.8	4146.1	4137.6	4120.6
35°	3709.4	3760.3	3932.0	3953.2	3938.4
37.5°	3510.2	3556.8	3717.9	3766.7	3753.9
40°	3300.3	3351.2	3478.4	3565.3	3569.5
42.5°	3092.6	3141.4	3245.2	3370.3	3370.3
45°	2872.2	2920.9	3016.3	3154.1	3171.0
47.5°	2655.9	2706.8	2800.1	2937.9	2965.4
50°	2444.0	2490.6	2583.9	2717.4	2759.8
52.5°	2223.5	2274.4	2365.6	2488.5	2550.0
55°	2011.6	2045.5	2145.1	2263.8	2329.5
57.5°	1791.1	1822.9	1935.3	2037.0	2104.8
60°	1579.2	1619.4	1706.3	1810.2	1888.6
62.5°	1375.7	1418.1	1492.2	1583.4	1672.4
65°	1178.5	1210.3	1282.4	1373.5	1452.0
67.5°	987.8	1015.3	1087.4	1151.0	1233.6
70°	794.9	830.9	883.9	945.4	998.4
72.5°	640.1	655.0	699.5	744.0	799.1
75°	472.7	498.1	534.2	559.6	591.4
77.5°	339.1	354.0	375.2	396.4	426.1
80°	226.8	233.2	252.2	256.5	279.8
82.5°	137.8	142.0	146.3	148.4	156.9
85°	74.2	74.2	74.2	69.9	69.9
87.5°	42.4	42.4	36.0	29.7	21.2
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)