

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: P557763

Luminaire Tested: **FUSL-12-4-LD4-3HI-35-UNV-81-85-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: P557763
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-35-UNV-81-85-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

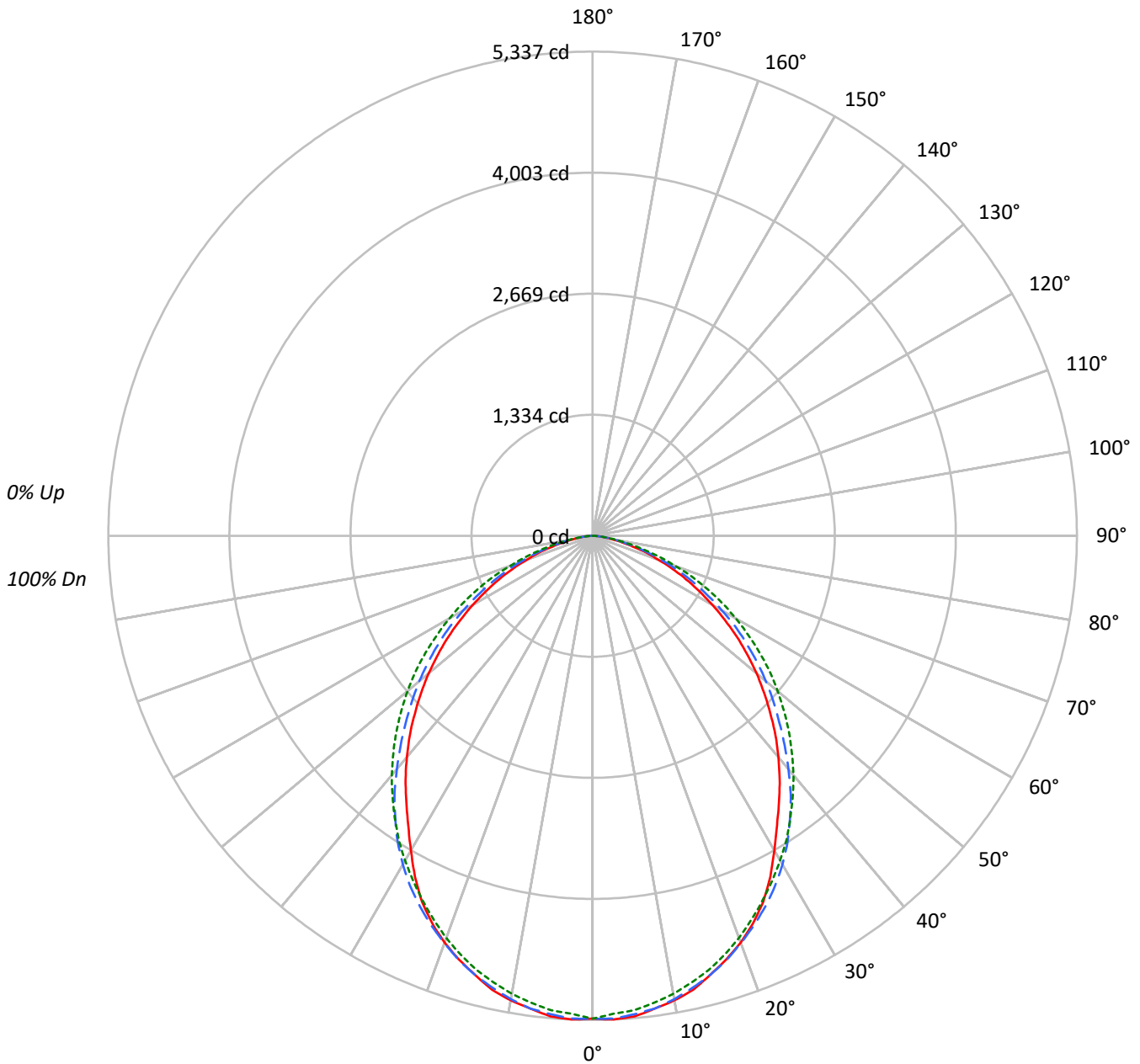
Lumens per Lamp: N/A
Luminaire Lumens: 12308.0 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 129.6
Input Voltage (V): NR
Input Current (Ain): 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°	14324	14324	14324
5°	14362	14301	14180
10°	14210	14170	14008
15°	13957	13957	13798
20°	13662	13680	13504
25°	13212	13376	13164
30°	12441	13001	12842
35°	11756	12461	12481
40°	11184	11788	12097
45°	10545	11074	11642
50°	9871	10435	11146
55°	9104	9709	10544
60°	8199	8859	9806
65°	7240	7878	8919
70°	6033	6709	7578
75°	4741	5358	5932
80°	3391	3770	4183
85°	2211	2211	2084



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.2	4.1
10°-20°	1407.9	11.4
20°-30°	2057.4	16.7
30°-40°	2335.4	19.0
40°-50°	2254.5	18.3
50°-60°	1859.8	15.1
60°-70°	1238.5	10.1
70°-80°	554.2	4.5
80°-90°	99.1	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°	3966.5	32.2
0°-40°	6301.9	51.2
0°-60°	10416.2	84.6
0°-90°	12308.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	12308.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5323	5323	5323	5323	5323	
5°	5317	5315	5294	5266	5249	503
15°	5010	5022	5010	4988	4953	1412
25°	4450	4484	4505	4472	4433	2038
35°	3579	3628	3793	3814	3799	2242
45°	2771	2818	2910	3043	3059	2138
55°	1941	1973	2069	2184	2247	1732
65°	1137	1168	1237	1325	1401	1127
75°	456	481	515	540	570	499
85°	72	72	72	68	68	97
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5322.9	5322.9	5322.9	5322.9	5322.9
2.5°	5337.2	5339.3	5327.0	5294.3	5273.8
5°	5316.8	5314.7	5294.3	5265.6	5249.3
7.5°	5257.5	5261.5	5255.4	5214.5	5192.0
10°	5200.2	5202.2	5185.9	5153.2	5126.6
12.5°	5126.6	5124.5	5102.0	5085.7	5042.7
15°	5010.0	5022.3	5010.0	4987.5	4952.8
17.5°	4897.6	4897.6	4905.7	4866.9	4840.3
20°	4770.8	4776.9	4776.9	4746.2	4715.6
22.5°	4623.5	4641.9	4648.1	4615.4	4578.5
25°	4449.7	4484.5	4504.9	4472.2	4433.4
27.5°	4239.1	4292.3	4353.6	4329.1	4286.1
30°	4003.9	4081.6	4183.9	4163.4	4132.8
32.5°	3781.0	3858.7	3999.8	3991.7	3975.3
35°	3578.6	3627.7	3793.3	3813.8	3799.4
37.5°	3386.4	3431.4	3586.8	3633.8	3621.5
40°	3183.9	3233.0	3355.7	3439.5	3443.6
42.5°	2983.5	3030.6	3130.8	3251.4	3251.4
45°	2770.8	2817.9	2909.9	3042.8	3059.2
47.5°	2562.3	2611.3	2701.3	2834.2	2860.8
50°	2357.8	2402.8	2492.7	2621.6	2662.5
52.5°	2145.1	2194.2	2282.1	2400.7	2460.0
55°	1940.6	1973.3	2069.4	2184.0	2247.4
57.5°	1727.9	1758.6	1867.0	1965.2	2030.6
60°	1523.5	1562.3	1646.1	1746.4	1822.0
62.5°	1327.1	1368.0	1439.6	1527.5	1613.4
65°	1137.0	1167.6	1237.2	1325.1	1400.8
67.5°	952.9	979.5	1049.0	1110.4	1190.1
70°	766.8	801.6	852.7	912.0	963.2
72.5°	617.6	631.9	674.8	717.8	770.9
75°	456.0	480.6	515.3	539.9	570.5
77.5°	327.2	341.5	361.9	382.4	411.0
80°	218.8	224.9	243.3	247.4	269.9
82.5°	132.9	137.0	141.1	143.1	151.3
85°	71.6	71.6	71.6	67.5	67.5
87.5°	40.9	40.9	34.8	28.6	20.4
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)