

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: P557723

Luminaire Tested: **FUSL-12-4-LD4-3HI-30-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: P557723
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-30-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

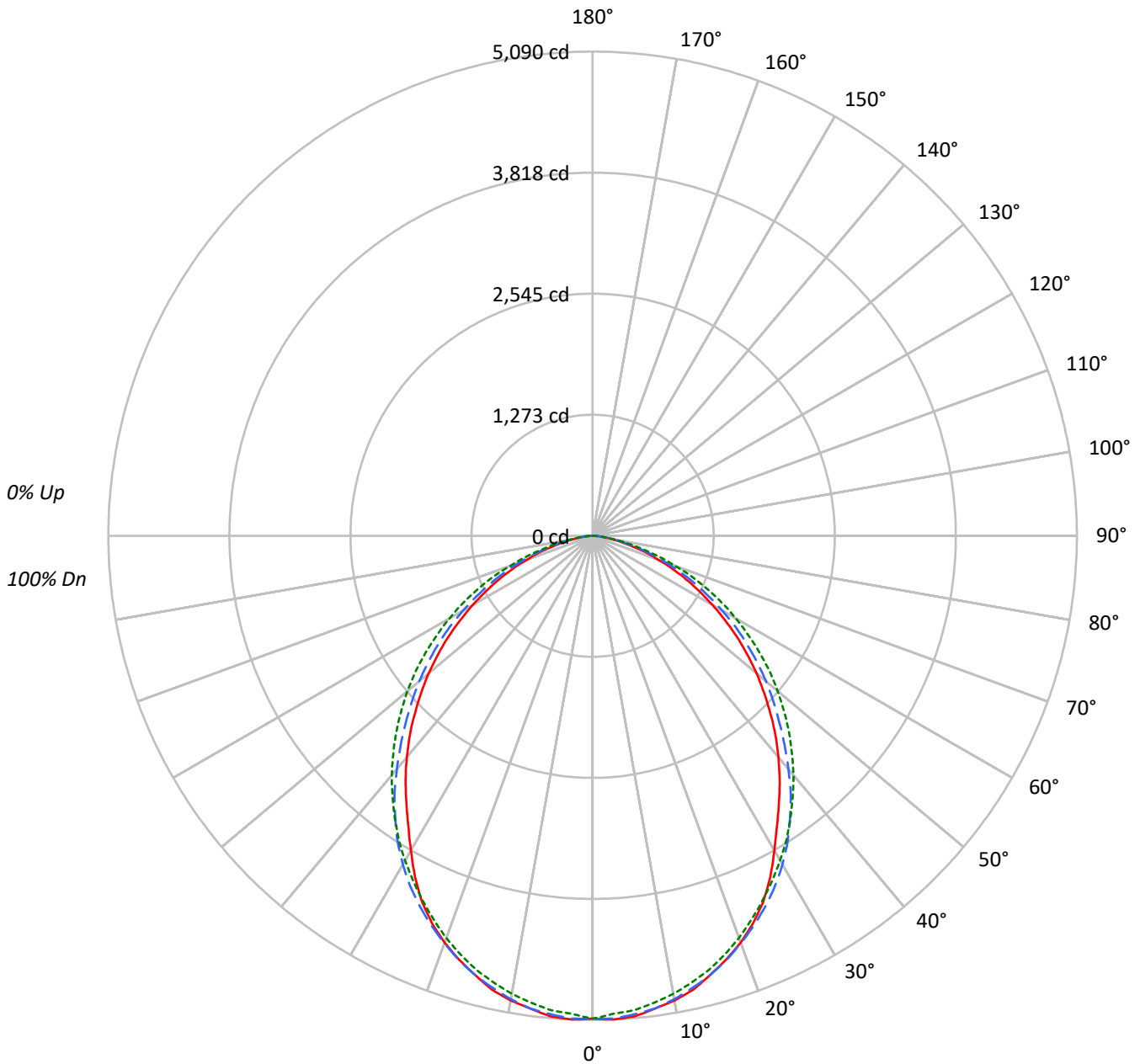
Lumens per Lamp: N/A
Luminaire Lumens: 11739.0 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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°	13662	13662	13662
5°	13698	13640	13524
10°	13553	13515	13361
15°	13312	13312	13160
20°	13030	13047	12880
25°	12601	12758	12555
30°	11866	12400	12248
35°	11212	11885	11904
40°	10667	11243	11538
45°	10057	10562	11104
50°	9414	9953	10631
55°	8684	9260	10056
60°	7820	8450	9353
65°	6905	7514	8507
70°	5755	6399	7227
75°	4522	5110	5658
80°	3234	3597	3989
85°	2109	2109	1988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	4.1
10°-20°	1342.8	11.4
20°-30°	1962.3	16.7
30°-40°	2227.4	19.0
40°-50°	2150.3	18.3
50°-60°	1773.8	15.1
60°-70°	1181.2	10.1
70°-80°	528.6	4.5
80°-90°	94.6	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°	3783.1	32.2
0°-40°	6010.6	51.2
0°-60°	9934.6	84.6
0°-90°	11739.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	11739.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5077	5077	5077	5077	5077	
5°	5071	5069	5050	5022	5007	480
15°	4778	4790	4778	4757	4724	1347
25°	4244	4277	4297	4266	4228	1944
35°	3413	3460	3618	3637	3624	2139
45°	2643	2688	2775	2902	2918	2039
55°	1851	1882	1974	2083	2144	1652
65°	1084	1114	1180	1264	1336	1075
75°	435	458	492	515	544	476
85°	68	68	68	64	64	92
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5076.8	5076.8	5076.8	5076.8	5076.8
2.5°	5090.5	5092.4	5080.7	5049.5	5030.0
5°	5071.0	5069.0	5049.5	5022.2	5006.6
7.5°	5014.4	5018.3	5012.5	4973.4	4952.0
10°	4959.8	4961.7	4946.1	4914.9	4889.6
12.5°	4889.6	4887.6	4866.2	4850.6	4809.6
15°	4778.4	4790.1	4778.4	4757.0	4723.8
17.5°	4671.1	4671.1	4678.9	4641.9	4616.5
20°	4550.2	4556.1	4556.1	4526.8	4497.6
22.5°	4409.8	4427.3	4433.2	4402.0	4366.9
25°	4244.0	4277.2	4296.7	4265.5	4228.4
27.5°	4043.1	4093.8	4152.3	4128.9	4088.0
30°	3818.8	3892.9	3990.5	3971.0	3941.7
32.5°	3606.2	3680.3	3814.9	3807.1	3791.5
35°	3413.1	3460.0	3617.9	3637.4	3623.8
37.5°	3229.8	3272.7	3420.9	3465.8	3454.1
40°	3036.7	3083.5	3200.6	3280.5	3284.4
42.5°	2845.6	2890.4	2986.0	3101.1	3101.1
45°	2642.8	2687.6	2775.4	2902.2	2917.8
47.5°	2443.8	2490.6	2576.4	2703.2	2728.6
50°	2248.8	2291.7	2377.5	2500.4	2539.4
52.5°	2045.9	2092.7	2176.6	2289.7	2346.3
55°	1850.9	1882.1	1973.8	2083.0	2143.5
57.5°	1648.1	1677.3	1780.7	1874.3	1936.7
60°	1453.0	1490.1	1570.0	1665.6	1737.8
62.5°	1265.8	1304.8	1373.1	1456.9	1538.8
65°	1084.4	1113.7	1180.0	1263.8	1336.0
67.5°	908.9	934.2	1000.5	1059.1	1135.1
70°	731.4	764.5	813.3	869.9	918.6
72.5°	589.0	602.7	643.6	684.6	735.3
75°	434.9	458.3	491.5	514.9	544.2
77.5°	312.1	325.7	345.2	364.7	392.0
80°	208.7	214.5	232.1	236.0	257.4
82.5°	126.8	130.7	134.6	136.5	144.3
85°	68.3	68.3	68.3	64.4	64.4
87.5°	39.0	39.0	33.2	27.3	19.5
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)