

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: P558387

Luminaire Tested: **FUSL-12-4-LD4-3STD-50-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: P558387
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-LD4-3STD-50-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 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

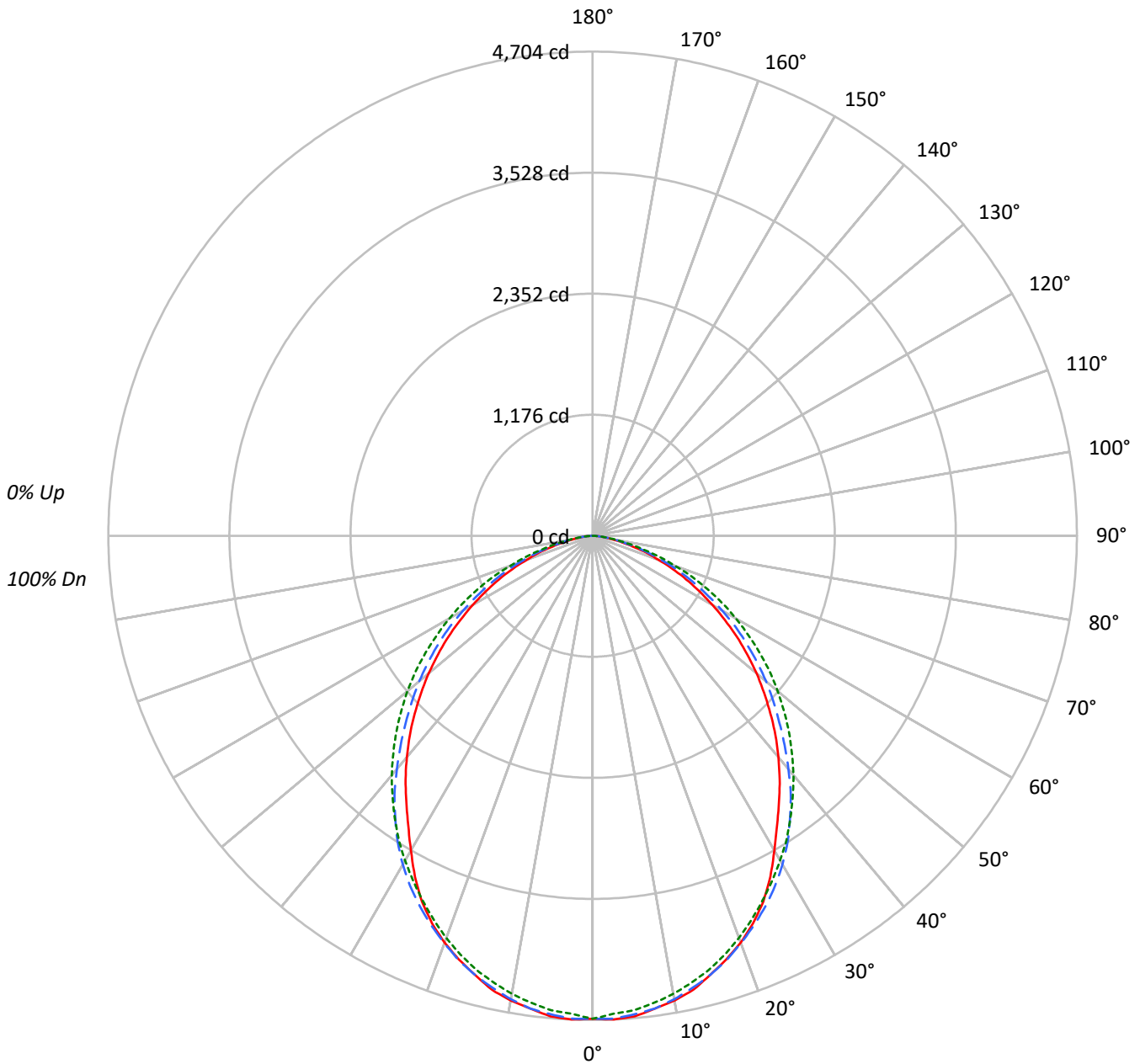
Lumens per Lamp: N/A
Luminaire Lumens: 10849.0 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 99.9
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°	12626	12626	12626
5°	12659	12606	12499
10°	12525	12490	12348
15°	12303	12303	12162
20°	12042	12058	11903
25°	11646	11790	11603
30°	10967	11459	11319
35°	10362	10984	11002
40°	9859	10391	10663
45°	9295	9761	10262
50°	8701	9198	9825
55°	8025	8558	9294
60°	7227	7809	8643
65°	6381	6944	7862
70°	5318	5914	6680
75°	4180	4722	5229
80°	2989	3324	3687
85°	1948	1948	1837



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	441.8	4.1
10°-20°	1241.0	11.4
20°-30°	1813.5	16.7
30°-40°	2058.6	19.0
40°-50°	1987.2	18.3
50°-60°	1639.3	15.1
60°-70°	1091.7	10.1
70°-80°	488.5	4.5
80°-90°	87.4	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°	3496.3	32.2
0°-40°	5554.9	51.2
0°-60°	9181.4	84.6
0°-90°	10849.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10849.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4692	4692	4692	4692	4692	
5°	4686	4685	4667	4641	4627	444
15°	4416	4427	4416	4396	4366	1245
25°	3922	3953	3971	3942	3908	1796
35°	3154	3198	3344	3362	3349	1976
45°	2442	2484	2565	2682	2696	1884
55°	1711	1739	1824	1925	1981	1527
65°	1002	1029	1090	1168	1235	994
75°	402	424	454	476	503	440
85°	63	63	63	60	60	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4691.9	4691.9	4691.9	4691.9	4691.9
2.5°	4704.5	4706.3	4695.5	4666.7	4648.7
5°	4686.5	4684.7	4666.7	4641.4	4627.0
7.5°	4634.2	4637.8	4632.4	4596.4	4576.6
10°	4583.8	4585.6	4571.1	4542.3	4518.9
12.5°	4518.9	4517.1	4497.2	4482.8	4445.0
15°	4416.1	4426.9	4416.1	4396.3	4365.7
17.5°	4317.0	4317.0	4324.2	4290.0	4266.5
20°	4205.2	4210.6	4210.6	4183.6	4156.6
22.5°	4075.5	4091.7	4097.1	4068.2	4035.8
25°	3922.2	3952.9	3970.9	3942.1	3907.8
27.5°	3736.6	3783.5	3837.5	3815.9	3778.0
30°	3529.3	3597.8	3687.9	3669.9	3642.9
32.5°	3332.8	3401.3	3525.7	3518.5	3504.1
35°	3154.4	3197.6	3343.6	3361.7	3349.0
37.5°	2984.9	3024.6	3161.6	3203.0	3192.2
40°	2806.5	2849.8	2957.9	3031.8	3035.4
42.5°	2629.9	2671.3	2759.6	2866.0	2866.0
45°	2442.4	2483.8	2565.0	2682.1	2696.5
47.5°	2258.5	2301.8	2381.1	2498.3	2521.7
50°	2078.3	2117.9	2197.2	2310.8	2346.9
52.5°	1890.8	1934.1	2011.6	2116.1	2168.4
55°	1710.6	1739.4	1824.1	1925.1	1980.9
57.5°	1523.1	1550.2	1645.7	1732.2	1789.9
60°	1342.9	1377.1	1451.0	1539.3	1606.0
62.5°	1169.8	1205.9	1269.0	1346.5	1422.2
65°	1002.2	1029.2	1090.5	1168.0	1234.7
67.5°	840.0	863.4	924.7	978.8	1049.1
70°	675.9	706.6	751.6	803.9	849.0
72.5°	544.4	557.0	594.8	632.7	679.5
75°	402.0	423.6	454.2	475.9	502.9
77.5°	288.4	301.0	319.0	337.1	362.3
80°	192.9	198.3	214.5	218.1	237.9
82.5°	117.2	120.8	124.4	126.2	133.4
85°	63.1	63.1	63.1	59.5	59.5
87.5°	36.1	36.1	30.6	25.2	18.0
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)