

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: P558263

Luminaire Tested: **FUSL-12-4-LD4-3STD-35-UNV-80-87-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: P558263
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-35-UNV-80-87-EDD
Description: 4FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

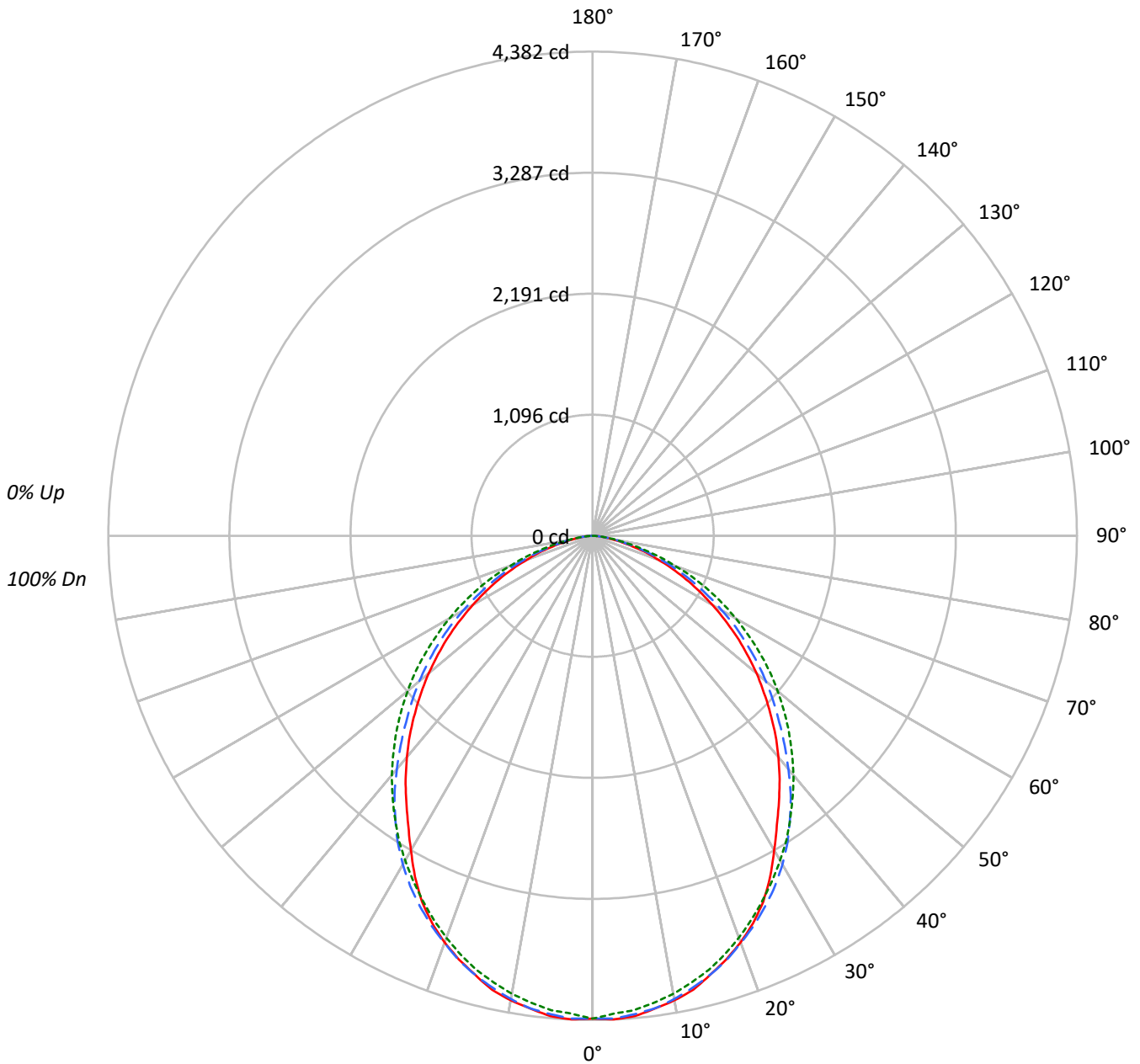
Lumens per Lamp: N/A
Luminaire Lumens: 10104.0 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P558263

CATALOG NUMBER: FUSL-12-4-LD4-3STD-35-UNV-80-87-EDD

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°	11759	11759	11759
5°	11790	11740	11641
10°	11665	11633	11500
15°	11458	11458	11327
20°	11216	11230	11086
25°	10846	10981	10806
30°	10213	10673	10542
35°	9651	10230	10246
40°	9182	9677	9931
45°	8657	9091	9557
50°	8103	8567	9150
55°	7474	7971	8655
60°	6731	7273	8050
65°	5943	6467	7322
70°	4953	5508	6221
75°	3893	4398	4870
80°	2783	3096	3434
85°	1815	1815	1711



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.4	4.1
10°-20°	1155.8	11.4
20°-30°	1689.0	16.7
30°-40°	1917.2	19.0
40°-50°	1850.8	18.3
50°-60°	1526.8	15.1
60°-70°	1016.7	10.1
70°-80°	455.0	4.5
80°-90°	81.4	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°	3256.2	32.2
0°-40°	5173.4	51.2
0°-60°	8551.0	84.6
0°-90°	10104.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	10104.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4370	4370	4370	4370	4370	
5°	4365	4363	4346	4323	4309	413
15°	4113	4123	4113	4094	4066	1159
25°	3653	3681	3698	3671	3640	1673
35°	2938	2978	3114	3131	3119	1841
45°	2275	2313	2389	2498	2511	1755
55°	1593	1620	1699	1793	1845	1422
65°	933	959	1016	1088	1150	925
75°	374	394	423	443	468	409
85°	59	59	59	55	55	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4369.7	4369.7	4369.7	4369.7	4369.7
2.5°	4381.5	4383.1	4373.1	4346.2	4329.4
5°	4364.7	4363.0	4346.2	4322.7	4309.3
7.5°	4316.0	4319.4	4314.3	4280.7	4262.3
10°	4269.0	4270.7	4257.2	4230.4	4208.6
12.5°	4208.6	4206.9	4188.4	4175.0	4139.7
15°	4112.9	4122.9	4112.9	4094.4	4065.9
17.5°	4020.5	4020.5	4027.3	3995.4	3973.5
20°	3916.5	3921.5	3921.5	3896.3	3871.1
22.5°	3795.6	3810.7	3815.7	3788.9	3758.7
25°	3652.9	3681.4	3698.2	3671.4	3639.5
27.5°	3480.0	3523.6	3574.0	3553.9	3518.6
30°	3286.9	3350.7	3434.7	3417.9	3392.7
32.5°	3104.0	3167.8	3283.6	3276.9	3263.4
35°	2937.8	2978.1	3114.0	3130.8	3119.1
37.5°	2780.0	2816.9	2944.5	2983.1	2973.0
40°	2613.8	2654.1	2754.8	2823.6	2827.0
42.5°	2449.3	2487.9	2570.1	2669.2	2669.2
45°	2274.7	2313.3	2388.8	2497.9	2511.4
47.5°	2103.4	2143.7	2217.6	2326.7	2348.5
50°	1935.6	1972.5	2046.4	2152.1	2185.7
52.5°	1761.0	1801.3	1873.5	1970.8	2019.5
55°	1593.1	1620.0	1698.9	1792.9	1844.9
57.5°	1418.5	1443.7	1532.7	1613.3	1667.0
60°	1250.6	1282.5	1351.4	1433.6	1495.7
62.5°	1089.5	1123.1	1181.8	1254.0	1324.5
65°	933.4	958.6	1015.6	1087.8	1149.9
67.5°	782.3	804.1	861.2	911.5	977.0
70°	629.5	658.1	700.0	748.7	790.7
72.5°	507.0	518.7	554.0	589.2	632.9
75°	374.4	394.5	423.0	443.2	468.4
77.5°	268.6	280.3	297.1	313.9	337.4
80°	179.6	184.7	199.8	203.1	221.6
82.5°	109.1	112.5	115.8	117.5	124.2
85°	58.8	58.8	58.8	55.4	55.4
87.5°	33.6	33.6	28.5	23.5	16.8
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)