

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: P553907

Luminaire Tested: **FUSL-12-2-LD4-1HI-35-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: P553907
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-12-2-LD4-1HI-35-UNV-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

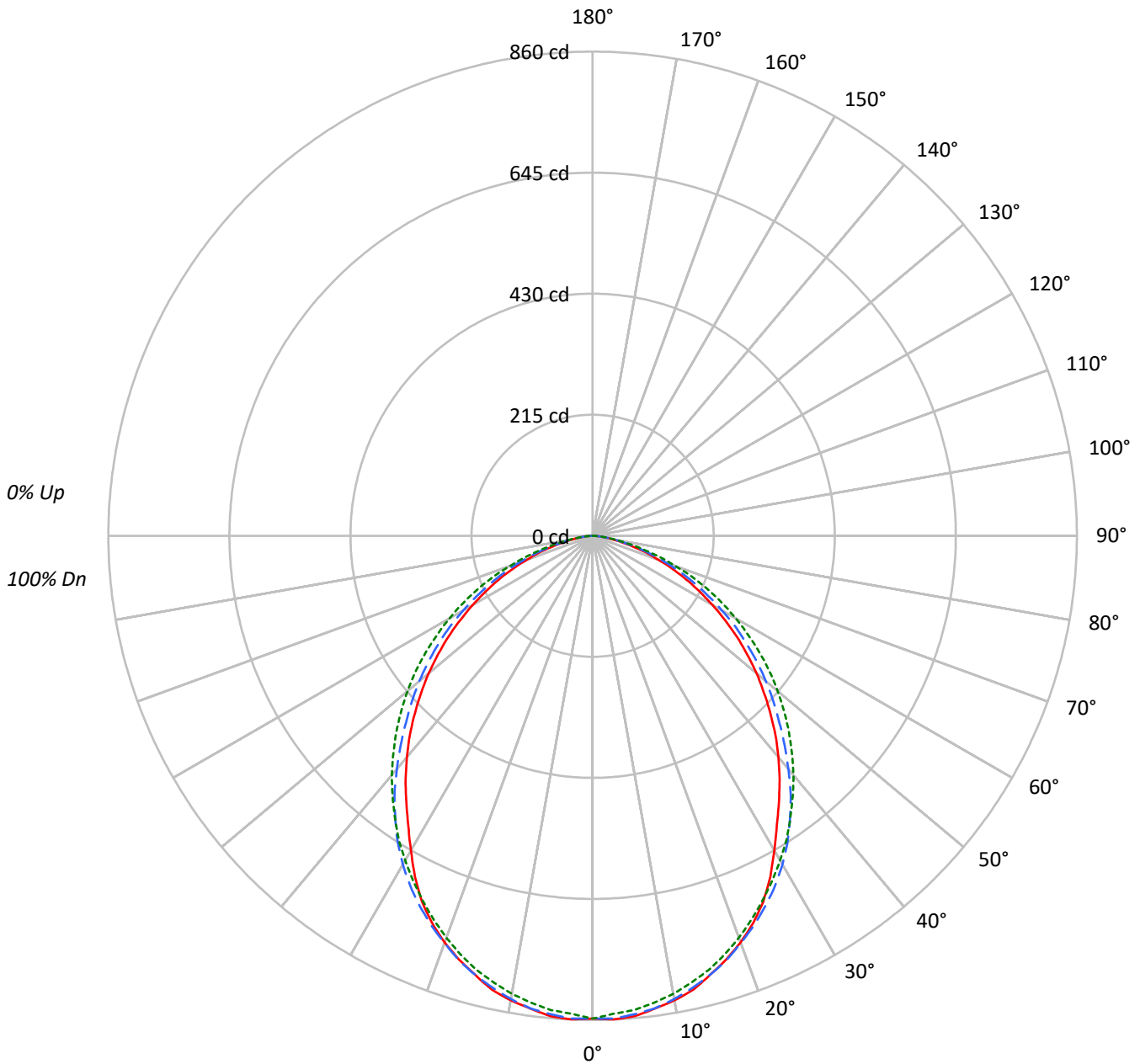
Lumens per Lamp: N/A
Luminaire Lumens: 1983.0 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 21.6
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°	4616	4616	4616
5°	4628	4608	4569
10°	4579	4566	4514
15°	4498	4498	4446
20°	4402	4408	4351
25°	4257	4310	4242
30°	4009	4189	4138
35°	3788	4016	4022
40°	3604	3799	3898
45°	3398	3568	3752
50°	3181	3363	3592
55°	2934	3128	3398
60°	2643	2855	3160
65°	2333	2538	2874
70°	1943	2162	2442
75°	1528	1726	1911
80°	1094	1215	1348
85°	710	710	673



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	4.1
10°-20°	226.8	11.4
20°-30°	331.5	16.7
30°-40°	376.3	19.0
40°-50°	363.2	18.3
50°-60°	299.6	15.1
60°-70°	199.5	10.1
70°-80°	89.3	4.5
80°-90°	16.0	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°	639.1	32.2
0°-40°	1015.3	51.2
0°-60°	1678.2	84.6
0°-90°	1983.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1983.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	858	858	858	858	858	
5°	857	856	853	848	846	81
15°	807	809	807	804	798	228
25°	717	722	726	720	714	328
35°	577	584	611	614	612	361
45°	446	454	469	490	493	344
55°	313	318	333	352	362	279
65°	183	188	199	214	226	182
75°	74	77	83	87	92	80
85°	12	12	12	11	11	16
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	857.6	857.6	857.6	857.6	857.6
2.5°	859.9	860.2	858.3	853.0	849.7
5°	856.6	856.3	853.0	848.4	845.7
7.5°	847.1	847.7	846.7	840.1	836.5
10°	837.8	838.2	835.5	830.3	826.0
12.5°	826.0	825.6	822.0	819.4	812.5
15°	807.2	809.2	807.2	803.6	798.0
17.5°	789.1	789.1	790.4	784.1	779.8
20°	768.6	769.6	769.6	764.7	759.7
22.5°	744.9	747.9	748.9	743.6	737.7
25°	716.9	722.5	725.8	720.5	714.3
27.5°	683.0	691.5	701.4	697.5	690.6
30°	645.1	657.6	674.1	670.8	665.8
32.5°	609.2	621.7	644.4	643.1	640.5
35°	576.6	584.5	611.2	614.5	612.1
37.5°	545.6	552.8	577.9	585.5	583.5
40°	513.0	520.9	540.7	554.2	554.8
42.5°	480.7	488.3	504.4	523.8	523.8
45°	446.4	454.0	468.8	490.2	492.9
47.5°	412.8	420.7	435.2	456.6	460.9
50°	379.9	387.1	401.6	422.4	429.0
52.5°	345.6	353.5	367.7	386.8	396.3
55°	312.7	317.9	333.4	351.9	362.1
57.5°	278.4	283.3	300.8	316.6	327.2
60°	245.5	251.7	265.2	281.4	293.6
62.5°	213.8	220.4	231.9	246.1	259.9
65°	183.2	188.1	199.3	213.5	225.7
67.5°	153.5	157.8	169.0	178.9	191.7
70°	123.5	129.2	137.4	146.9	155.2
72.5°	99.5	101.8	108.7	115.6	124.2
75°	73.5	77.4	83.0	87.0	91.9
77.5°	52.7	55.0	58.3	61.6	66.2
80°	35.3	36.2	39.2	39.9	43.5
82.5°	21.4	22.1	22.7	23.1	24.4
85°	11.5	11.5	11.5	10.9	10.9
87.5°	6.6	6.6	5.6	4.6	3.3
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)