

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: P554036

Luminaire Tested: **FUSL-12-2-LD4-1HI-50-UNV-80-86-EDD-90**

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: P554036
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-50-UNV-80-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

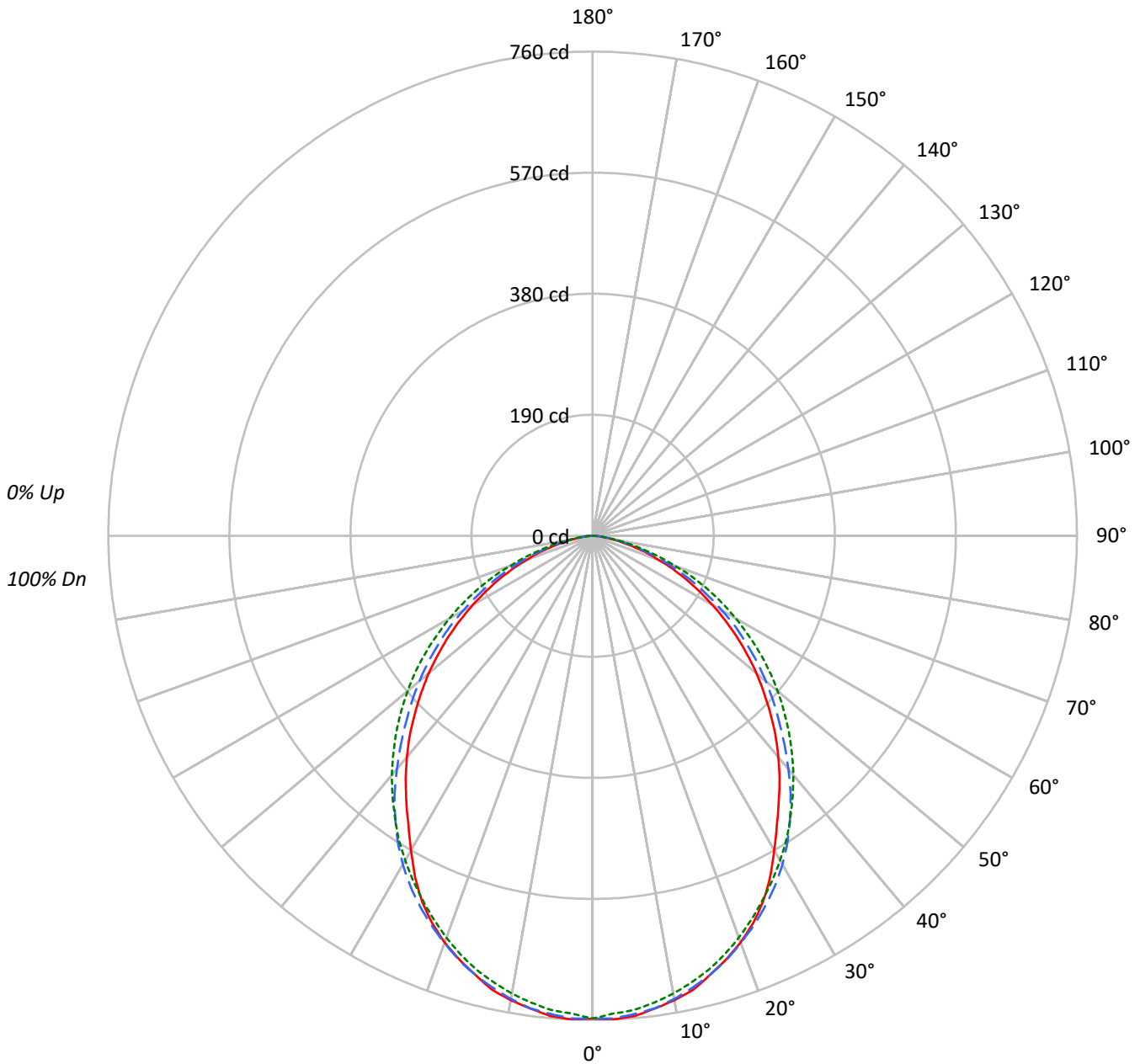
Lumens per Lamp: N/A
Luminaire Lumens: 1752.0 lumens
Efficiency: N/A
Efficacy: 81.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	4078	4078	4078
5°	4089	4071	4037
10°	4045	4034	3988
15°	3974	3974	3928
20°	3889	3895	3844
25°	3761	3808	3748
30°	3542	3701	3656
35°	3347	3548	3553
40°	3184	3356	3444
45°	3002	3153	3315
50°	2810	2971	3173
55°	2592	2764	3002
60°	2335	2522	2792
65°	2060	2243	2539
70°	1718	1910	2157
75°	1350	1526	1688
80°	964	1072	1190
85°	630	630	593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	4.1
10°-20°	200.4	11.4
20°-30°	292.9	16.7
30°-40°	332.4	19.0
40°-50°	320.9	18.3
50°-60°	264.7	15.1
60°-70°	176.3	10.1
70°-80°	78.9	4.5
80°-90°	14.1	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°	564.6	32.2
0°-40°	897.1	51.2
0°-60°	1482.7	84.6
0°-90°	1752.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	758	758	758	758	758	
5°	757	756	754	750	747	72
15°	713	715	713	710	705	201
25°	633	638	641	637	631	290
35°	509	516	540	543	541	319
45°	394	401	414	433	436	304
55°	276	281	295	311	320	247
65°	162	166	176	189	199	160
75°	65	68	73	77	81	71
85°	10	10	10	10	10	14
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	757.7	757.7	757.7	757.7	757.7
2.5°	759.7	760.0	758.3	753.6	750.7
5°	756.8	756.5	753.6	749.5	747.2
7.5°	748.4	749.0	748.1	742.3	739.1
10°	740.2	740.5	738.2	733.5	729.8
12.5°	729.8	729.5	726.3	723.9	717.8
15°	713.2	714.9	713.2	710.0	705.0
17.5°	697.1	697.1	698.3	692.8	689.0
20°	679.1	680.0	680.0	675.6	671.2
22.5°	658.1	660.8	661.6	657.0	651.7
25°	633.4	638.3	641.3	636.6	631.1
27.5°	603.4	611.0	619.7	616.2	610.1
30°	569.9	581.0	595.6	592.6	588.3
32.5°	538.2	549.3	569.4	568.2	565.9
35°	509.4	516.4	540.0	542.9	540.8
37.5°	482.0	488.4	510.6	517.3	515.5
40°	453.2	460.2	477.7	489.6	490.2
42.5°	424.7	431.4	445.7	462.8	462.8
45°	394.4	401.1	414.2	433.1	435.5
47.5°	364.7	371.7	384.5	403.4	407.2
50°	335.6	342.0	354.8	373.2	379.0
52.5°	305.3	312.3	324.9	341.7	350.2
55°	276.2	280.9	294.6	310.9	319.9
57.5°	246.0	250.3	265.8	279.7	289.0
60°	216.9	222.4	234.3	248.6	259.4
62.5°	188.9	194.7	204.9	217.4	229.7
65°	161.8	166.2	176.1	188.6	199.4
67.5°	135.6	139.4	149.3	158.1	169.4
70°	109.2	114.1	121.4	129.8	137.1
72.5°	87.9	89.9	96.1	102.2	109.7
75°	64.9	68.4	73.4	76.8	81.2
77.5°	46.6	48.6	51.5	54.4	58.5
80°	31.1	32.0	34.6	35.2	38.4
82.5°	18.9	19.5	20.1	20.4	21.5
85°	10.2	10.2	10.2	9.6	9.6
87.5°	5.8	5.8	4.9	4.1	2.9
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)