

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: P554434

Luminaire Tested: **FUSL-12-2-LD4-1STD-35-UNV-81-85-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: P554434
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-LD4-1STD-35-UNV-81-85-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

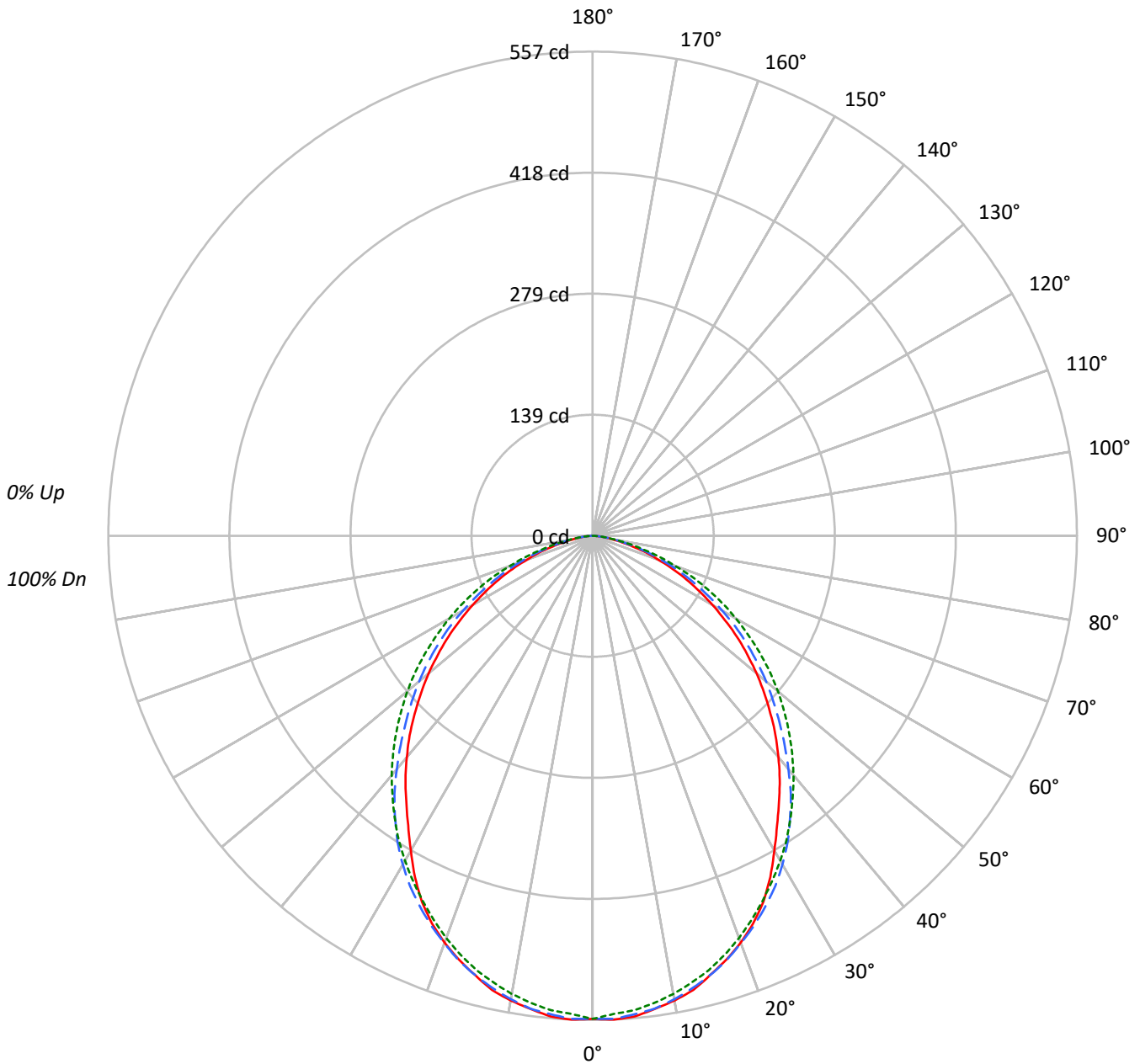
Lumens per Lamp: N/A
Luminaire Lumens: 1285.0 lumens
Efficiency: N/A
Efficacy: 77.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
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°	2991	2991	2991
5°	2999	2986	2961
10°	2967	2959	2925
15°	2915	2915	2881
20°	2853	2856	2820
25°	2759	2793	2749
30°	2598	2715	2682
35°	2455	2602	2606
40°	2335	2461	2526
45°	2202	2312	2431
50°	2061	2179	2328
55°	1901	2028	2201
60°	1713	1850	2047
65°	1512	1645	1862
70°	1260	1400	1583
75°	990	1119	1239
80°	707	787	874
85°	463	463	432



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.3	4.1
10°-20°	147.0	11.4
20°-30°	214.8	16.7
30°-40°	243.8	19.0
40°-50°	235.4	18.3
50°-60°	194.2	15.1
60°-70°	129.3	10.1
70°-80°	57.9	4.5
80°-90°	10.3	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°	414.1	32.2
0°-40°	657.9	51.2
0°-60°	1087.5	84.6
0°-90°	1285.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1285.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	556	556	556	556	556	
5°	555	555	553	550	548	53
15°	523	524	523	521	517	147
25°	465	468	470	467	463	213
35°	374	379	396	398	397	234
45°	289	294	304	318	319	223
55°	203	206	216	228	235	181
65°	119	122	129	138	146	118
75°	48	50	54	56	60	52
85°	8	8	8	7	7	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	555.7	555.7	555.7	555.7	555.7
2.5°	557.2	557.4	556.2	552.7	550.6
5°	555.1	554.9	552.7	549.8	548.0
7.5°	548.9	549.3	548.7	544.4	542.1
10°	542.9	543.1	541.4	538.0	535.2
12.5°	535.2	535.0	532.7	531.0	526.5
15°	523.1	524.3	523.1	520.7	517.1
17.5°	511.3	511.3	512.2	508.1	505.3
20°	498.1	498.7	498.7	495.5	492.3
22.5°	482.7	484.6	485.3	481.9	478.0
25°	464.6	468.2	470.3	466.9	462.9
27.5°	442.6	448.1	454.5	452.0	447.5
30°	418.0	426.1	436.8	434.7	431.5
32.5°	394.8	402.9	417.6	416.7	415.0
35°	373.6	378.7	396.0	398.2	396.7
37.5°	353.5	358.2	374.5	379.4	378.1
40°	332.4	337.5	350.3	359.1	359.5
42.5°	311.5	316.4	326.9	339.5	339.5
45°	289.3	294.2	303.8	317.7	319.4
47.5°	267.5	272.6	282.0	295.9	298.7
50°	246.2	250.9	260.3	273.7	278.0
52.5°	224.0	229.1	238.3	250.6	256.8
55°	202.6	206.0	216.1	228.0	234.6
57.5°	180.4	183.6	194.9	205.2	212.0
60°	159.1	163.1	171.9	182.3	190.2
62.5°	138.6	142.8	150.3	159.5	168.4
65°	118.7	121.9	129.2	138.3	146.2
67.5°	99.5	102.3	109.5	115.9	124.3
70°	80.1	83.7	89.0	95.2	100.6
72.5°	64.5	66.0	70.5	74.9	80.5
75°	47.6	50.2	53.8	56.4	59.6
77.5°	34.2	35.7	37.8	39.9	42.9
80°	22.8	23.5	25.4	25.8	28.2
82.5°	13.9	14.3	14.7	14.9	15.8
85°	7.5	7.5	7.5	7.0	7.0
87.5°	4.3	4.3	3.6	3.0	2.1
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)