

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: P554392

Luminaire Tested: **FUSL-12-2-LD4-1STD-30-UNV-82-88-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: P554392
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-30-UNV-82-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

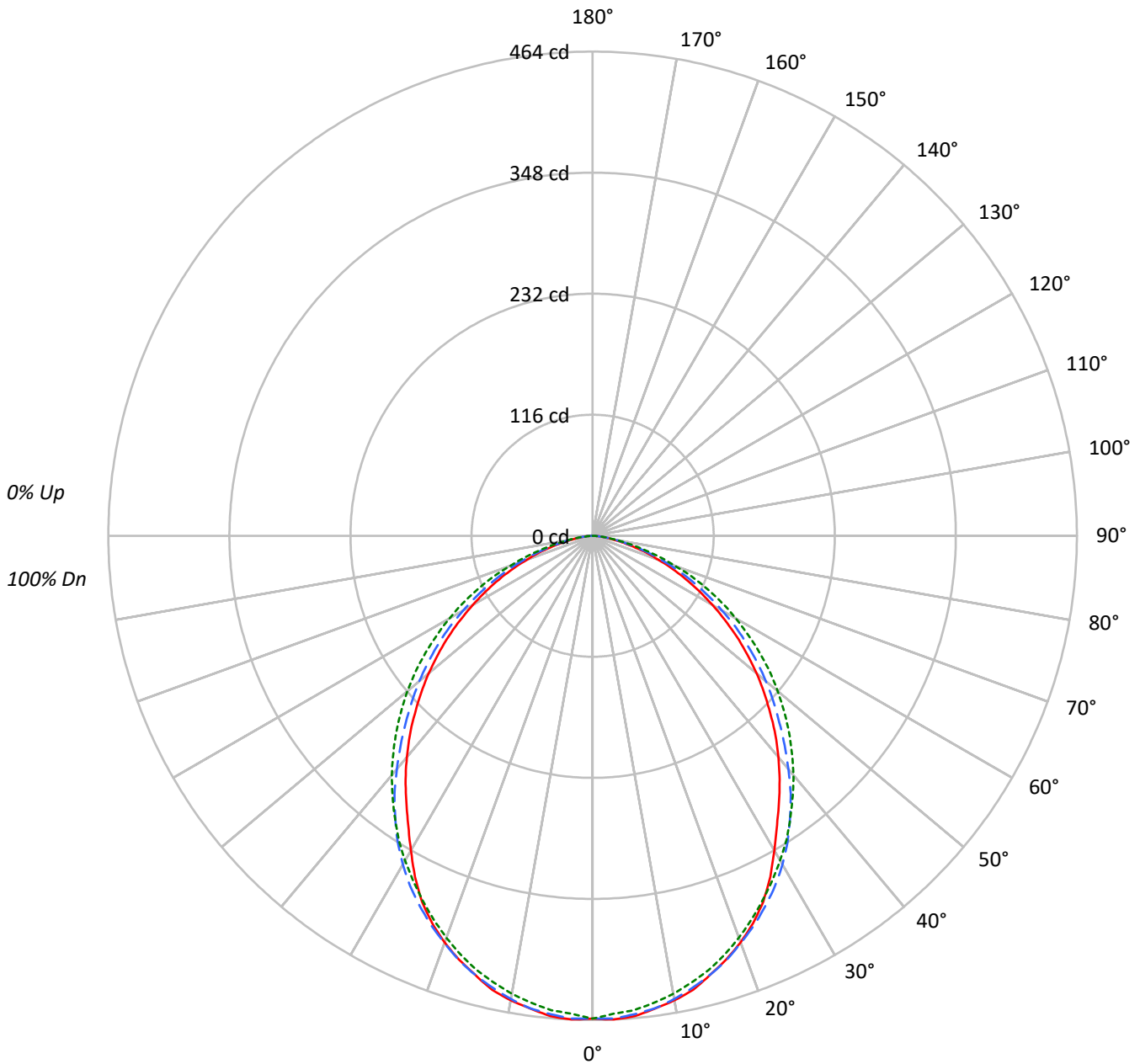
Lumens per Lamp: N/A
Luminaire Lumens: 1070.0 lumens
Efficiency: N/A
Efficacy: 64.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 16.6
Input Voltage (V): NR
Input Current (A_{in}): 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°	2490	2490	2490
5°	2497	2487	2465
10°	2471	2464	2436
15°	2427	2427	2399
20°	2375	2379	2348
25°	2297	2325	2289
30°	2163	2260	2233
35°	2044	2167	2170
40°	1945	2049	2103
45°	1834	1926	2025
50°	1716	1814	1938
55°	1583	1688	1833
60°	1425	1540	1705
65°	1258	1370	1551
70°	1050	1166	1317
75°	823	932	1031
80°	589	657	728
85°	383	383	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.6	4.1
10°-20°	122.4	11.4
20°-30°	178.9	16.7
30°-40°	203.0	19.0
40°-50°	196.0	18.3
50°-60°	161.7	15.1
60°-70°	107.7	10.1
70°-80°	48.2	4.5
80°-90°	8.6	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°	344.8	32.2
0°-40°	547.8	51.2
0°-60°	905.5	84.6
0°-90°	1070.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1070.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	463	463	463	463	463	
5°	462	462	460	458	456	44
15°	436	437	436	434	431	123
25°	387	390	392	389	385	177
35°	311	315	330	332	330	195
45°	241	245	253	264	266	186
55°	169	172	180	190	195	151
65°	99	102	108	115	122	98
75°	40	42	45	47	50	43
85°	6	6	6	6	6	8
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	462.7	462.7	462.7	462.7	462.7
2.5°	464.0	464.2	463.1	460.3	458.5
5°	462.2	462.0	460.3	457.8	456.3
7.5°	457.1	457.4	456.9	453.3	451.4
10°	452.1	452.3	450.8	448.0	445.7
12.5°	445.7	445.5	443.5	442.1	438.4
15°	435.5	436.6	435.5	433.6	430.6
17.5°	425.8	425.8	426.5	423.1	420.8
20°	414.7	415.3	415.3	412.6	409.9
22.5°	401.9	403.5	404.1	401.2	398.0
25°	386.8	389.9	391.6	388.8	385.4
27.5°	368.5	373.1	378.5	376.3	372.6
30°	348.1	354.8	363.7	361.9	359.3
32.5°	328.7	335.5	347.7	347.0	345.6
35°	311.1	315.4	329.8	331.5	330.3
37.5°	294.4	298.3	311.8	315.9	314.8
40°	276.8	281.1	291.7	299.0	299.4
42.5°	259.4	263.5	272.2	282.7	282.7
45°	240.9	245.0	253.0	264.5	266.0
47.5°	222.8	227.0	234.8	246.4	248.7
50°	205.0	208.9	216.7	227.9	231.5
52.5°	186.5	190.8	198.4	208.7	213.9
55°	168.7	171.6	179.9	189.9	195.4
57.5°	150.2	152.9	162.3	170.8	176.5
60°	132.4	135.8	143.1	151.8	158.4
62.5°	115.4	118.9	125.2	132.8	140.3
65°	98.8	101.5	107.6	115.2	121.8
67.5°	82.8	85.2	91.2	96.5	103.5
70°	66.7	69.7	74.1	79.3	83.7
72.5°	53.7	54.9	58.7	62.4	67.0
75°	39.6	41.8	44.8	46.9	49.6
77.5°	28.4	29.7	31.5	33.2	35.7
80°	19.0	19.6	21.2	21.5	23.5
82.5°	11.6	11.9	12.3	12.4	13.2
85°	6.2	6.2	6.2	5.9	5.9
87.5°	3.6	3.6	3.0	2.5	1.8
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)