

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: P554959

Luminaire Tested: **FUSL-12-2-LD4-2LO-35-UNV-81-97-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: P554959
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-LD4-2LO-35-UNV-81-97-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .375
CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT
LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

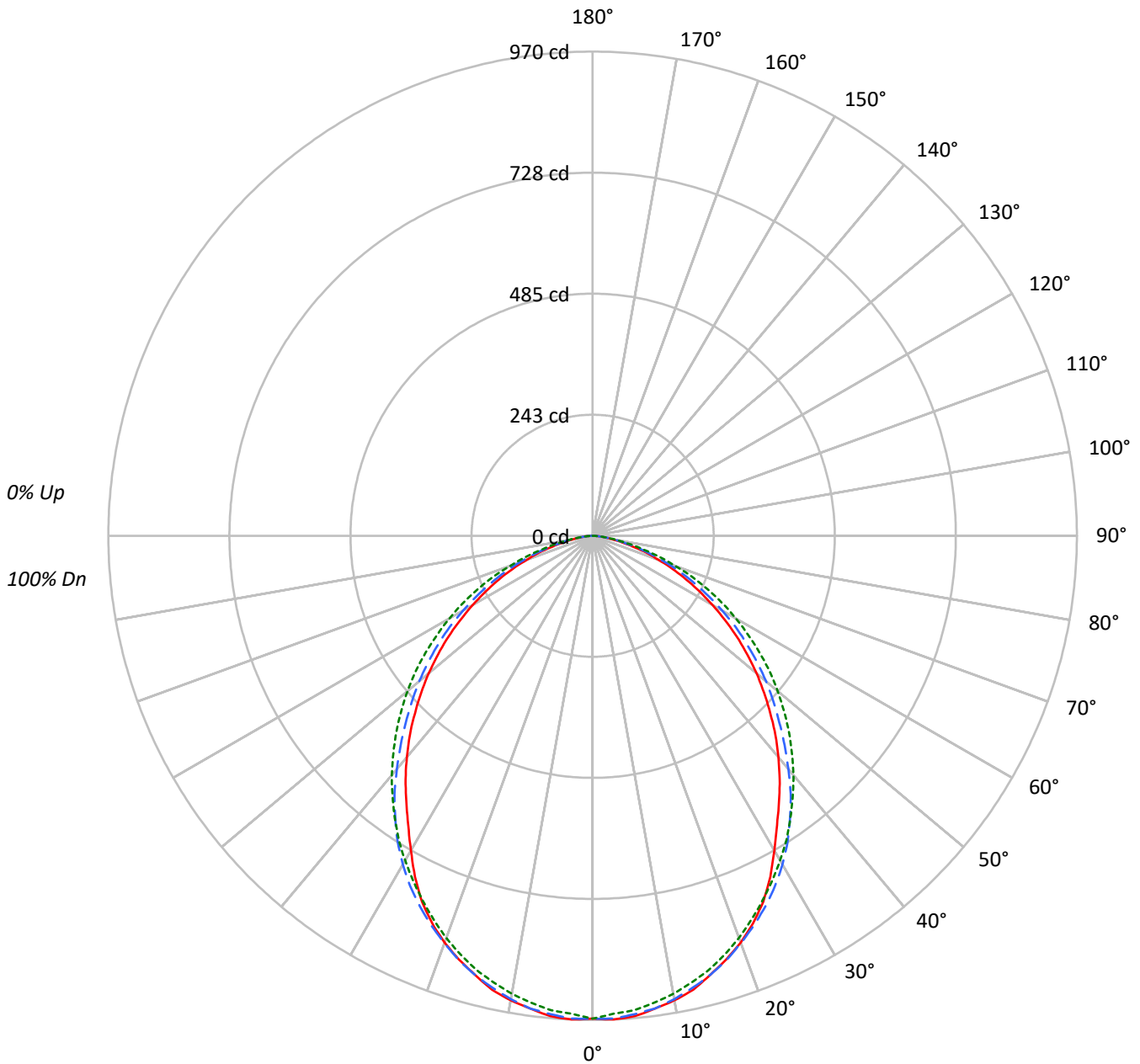
Lumens per Lamp: N/A
Luminaire Lumens: 2237.0 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5207	5207	5207
5°	5220	5198	5155
10°	5165	5151	5092
15°	5074	5074	5016
20°	4966	4972	4909
25°	4802	4862	4785
30°	4522	4726	4668
35°	4273	4529	4537
40°	4066	4285	4397
45°	3833	4026	4232
50°	3588	3794	4052
55°	3309	3529	3833
60°	2981	3221	3565
65°	2631	2864	3242
70°	2194	2439	2755
75°	1724	1948	2156
80°	1234	1370	1522
85°	803	803	760



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.1	4.1
10°-20°	255.9	11.4
20°-30°	373.9	16.7
30°-40°	424.5	19.0
40°-50°	409.8	18.3
50°-60°	338.0	15.1
60°-70°	225.1	10.1
70°-80°	100.7	4.5
80°-90°	18.0	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°	720.9	32.2
0°-40°	1145.4	51.2
0°-60°	1893.2	84.6
0°-90°	2237.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	967	967	967	967	967	
5°	966	966	962	957	954	91
15°	911	913	911	906	900	257
25°	809	815	819	813	806	370
35°	650	659	689	693	691	408
45°	504	512	529	553	556	389
55°	353	359	376	397	408	315
65°	207	212	225	241	255	205
75°	83	87	94	98	104	91
85°	13	13	13	12	12	18
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	967.4	967.4	967.4	967.4	967.4
2.5°	970.0	970.4	968.2	962.2	958.5
5°	966.3	966.0	962.2	957.0	954.1
7.5°	955.6	956.3	955.2	947.7	943.7
10°	945.1	945.5	942.5	936.6	931.8
12.5°	931.8	931.4	927.3	924.3	916.5
15°	910.6	912.8	910.6	906.5	900.2
17.5°	890.1	890.1	891.6	884.6	879.7
20°	867.1	868.2	868.2	862.6	857.1
22.5°	840.3	843.7	844.8	838.8	832.2
25°	808.7	815.1	818.8	812.8	805.8
27.5°	770.5	780.1	791.3	786.8	779.0
30°	727.7	741.8	760.4	756.7	751.1
32.5°	687.2	701.3	727.0	725.5	722.5
35°	650.4	659.3	689.4	693.2	690.6
37.5°	615.5	623.7	651.9	660.4	658.2
40°	578.7	587.6	609.9	625.1	625.9
42.5°	542.3	550.8	569.0	590.9	590.9
45°	503.6	512.2	528.9	553.0	556.0
47.5°	465.7	474.6	491.0	515.1	520.0
50°	428.5	436.7	453.1	476.5	483.9
52.5°	389.9	398.8	414.8	436.3	447.1
55°	352.7	358.7	376.1	396.9	408.5
57.5°	314.1	319.6	339.3	357.2	369.1
60°	276.9	284.0	299.2	317.4	331.2
62.5°	241.2	248.6	261.7	277.6	293.2
65°	206.6	212.2	224.9	240.8	254.6
67.5°	173.2	178.0	190.7	201.8	216.3
70°	139.4	145.7	155.0	165.8	175.1
72.5°	112.2	114.8	122.6	130.5	140.1
75°	82.9	87.3	93.7	98.1	103.7
77.5°	59.5	62.1	65.8	69.5	74.7
80°	39.8	40.9	44.2	45.0	49.1
82.5°	24.2	24.9	25.6	26.0	27.5
85°	13.0	13.0	13.0	12.3	12.3
87.5°	7.4	7.4	6.3	5.2	3.7
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)