

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: P555105

Luminaire Tested: **FUSL-12-2-LD4-2LO-50-UNV-93-84-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: P555105
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-50-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

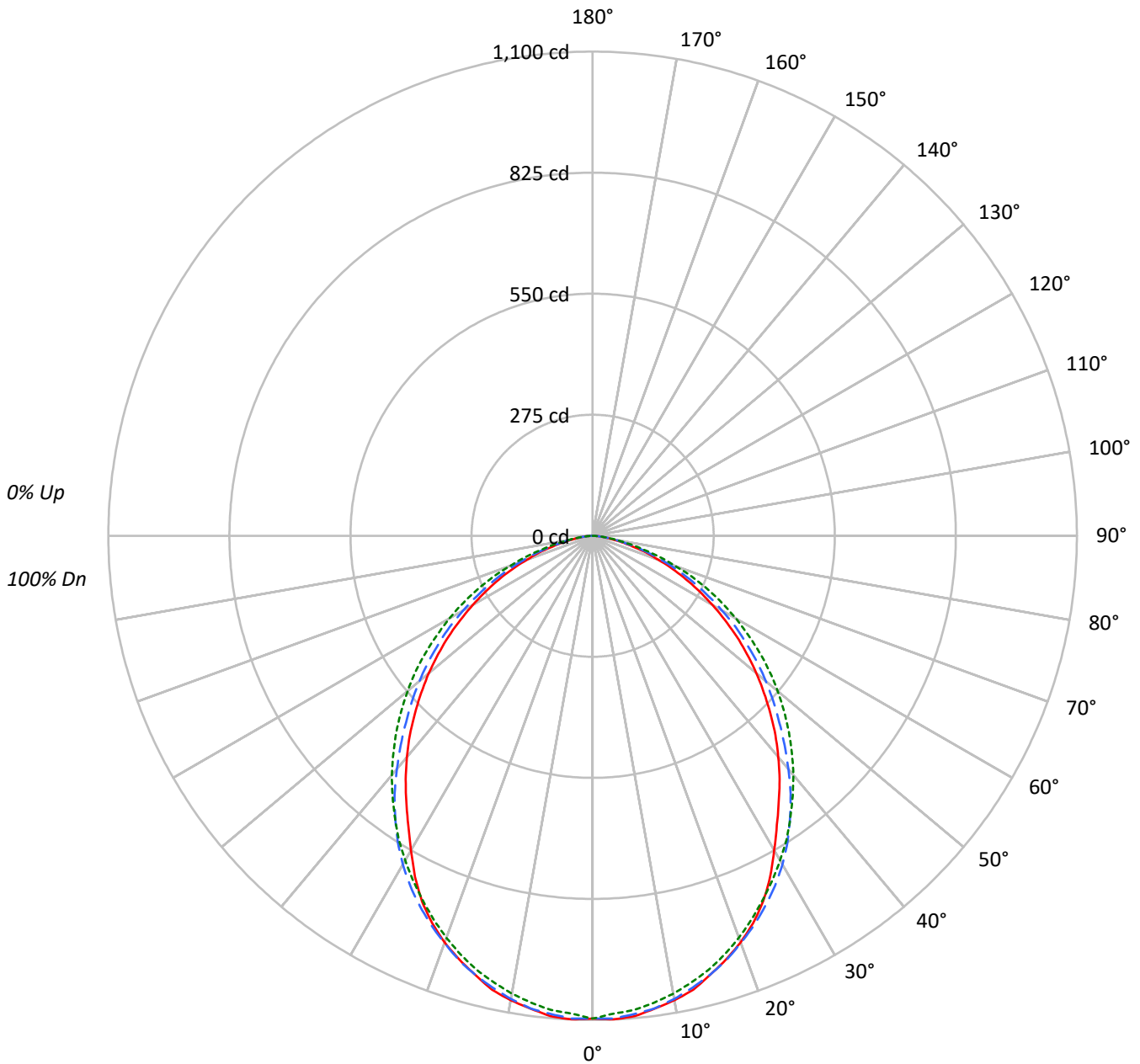
Lumens per Lamp: N/A
Luminaire Lumens: 2536.0 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 23.4
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°	5903	5903	5903
5°	5918	5894	5843
10°	5856	5839	5773
15°	5752	5752	5686
20°	5630	5637	5565
25°	5444	5512	5425
30°	5127	5358	5292
35°	4844	5135	5144
40°	4609	4858	4985
45°	4345	4564	4797
50°	4068	4300	4593
55°	3752	4001	4345
60°	3379	3651	4041
65°	2984	3246	3675
70°	2486	2765	3124
75°	1955	2208	2445
80°	1398	1553	1723
85°	908	908	858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	4.1
10°-20°	290.1	11.4
20°-30°	423.9	16.7
30°-40°	481.2	19.0
40°-50°	464.5	18.3
50°-60°	383.2	15.1
60°-70°	255.2	10.1
70°-80°	114.2	4.5
80°-90°	20.4	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°	817.3	32.2
0°-40°	1298.5	51.2
0°-60°	2146.2	84.6
0°-90°	2536.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2536.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1097	1097	1097	1097	1097	
5°	1096	1095	1091	1085	1082	104
15°	1032	1035	1032	1028	1020	291
25°	917	924	928	922	914	420
35°	737	748	782	786	783	462
45°	571	581	600	627	630	440
55°	400	407	426	450	463	357
65°	234	241	255	273	289	232
75°	94	99	106	111	118	103
85°	15	15	15	14	14	20
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1096.8	1096.8	1096.8	1096.8	1096.8
2.5°	1099.7	1100.1	1097.6	1090.9	1086.6
5°	1095.5	1095.1	1090.9	1085.0	1081.6
7.5°	1083.3	1084.1	1082.9	1074.4	1069.8
10°	1071.5	1071.9	1068.5	1061.8	1056.3
12.5°	1056.3	1055.9	1051.2	1047.9	1039.0
15°	1032.3	1034.8	1032.3	1027.7	1020.5
17.5°	1009.1	1009.1	1010.8	1002.8	997.3
20°	983.0	984.3	984.3	977.9	971.6
22.5°	952.7	956.4	957.7	951.0	943.4
25°	916.8	924.0	928.2	921.5	913.5
27.5°	873.4	884.4	897.0	892.0	883.1
30°	825.0	841.0	862.1	857.9	851.5
32.5°	779.1	795.1	824.1	822.5	819.1
35°	737.3	747.5	781.6	785.8	782.9
37.5°	697.7	707.0	739.0	748.7	746.2
40°	656.0	666.1	691.4	708.7	709.5
42.5°	614.7	624.4	645.1	669.9	669.9
45°	570.9	580.6	599.6	627.0	630.3
47.5°	527.9	538.1	556.6	584.0	589.5
50°	485.8	495.1	513.6	540.2	548.6
52.5°	442.0	452.1	470.2	494.7	506.9
55°	399.9	406.6	426.4	450.0	463.1
57.5°	356.0	362.4	384.7	404.9	418.4
60°	313.9	321.9	339.2	359.8	375.4
62.5°	273.5	281.9	296.6	314.7	332.4
65°	234.3	240.6	254.9	273.0	288.6
67.5°	196.3	201.8	216.1	228.8	245.2
70°	158.0	165.2	175.7	187.9	198.5
72.5°	127.2	130.2	139.0	147.9	158.8
75°	94.0	99.0	106.2	111.2	117.6
77.5°	67.4	70.4	74.6	78.8	84.7
80°	45.1	46.3	50.1	51.0	55.6
82.5°	27.4	28.2	29.1	29.5	31.2
85°	14.7	14.7	14.7	13.9	13.9
87.5°	8.4	8.4	7.2	5.9	4.2
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)