

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: P555286

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-82-87-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: P555286
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-LD4-2STD-40-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

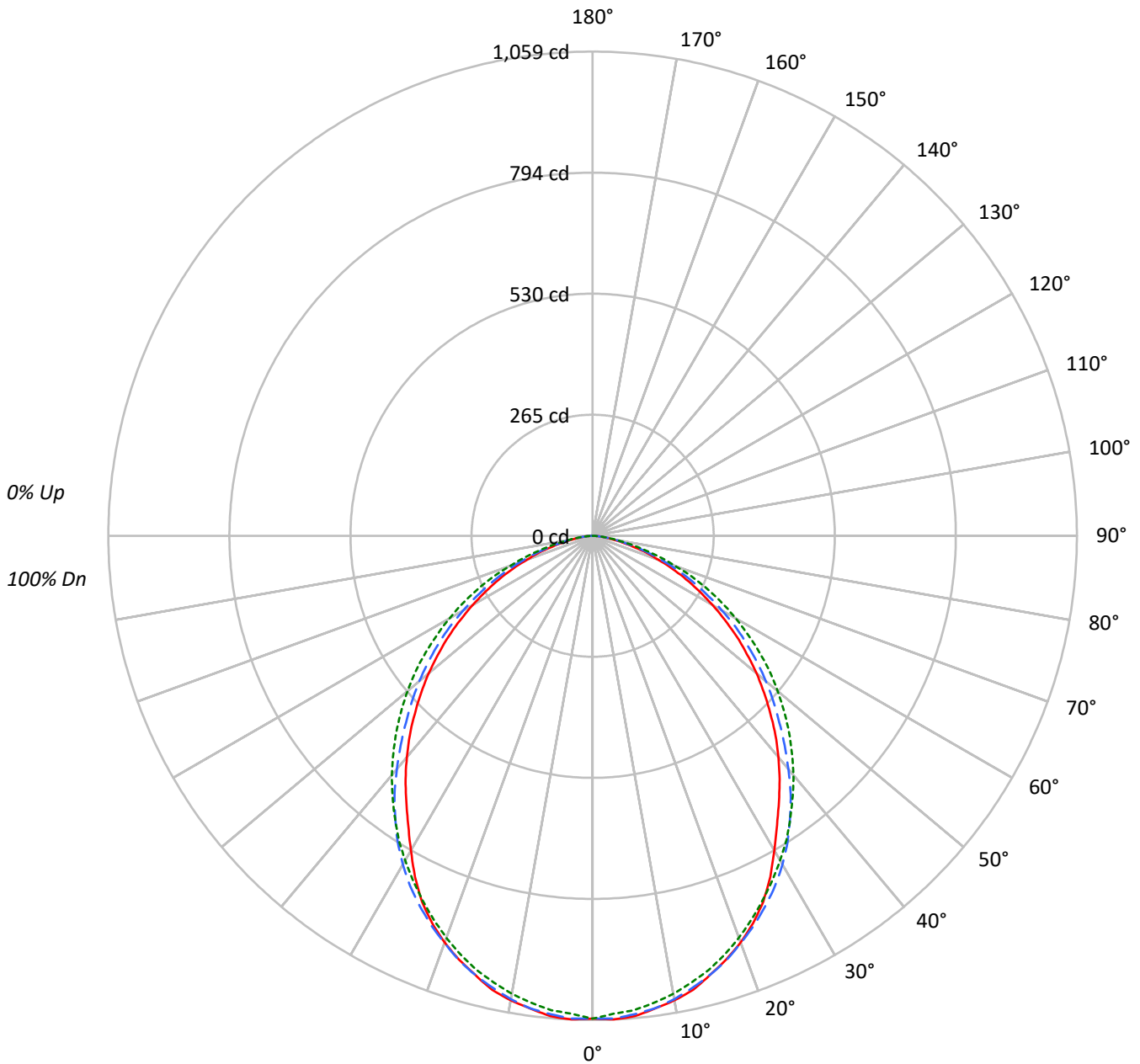
Lumens per Lamp: N/A
Luminaire Lumens: 2442.0 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	5684	5684	5684
5°	5699	5675	5627
10°	5639	5623	5559
15°	5538	5538	5475
20°	5422	5428	5359
25°	5243	5308	5223
30°	4937	5159	5096
35°	4665	4945	4953
40°	4438	4678	4800
45°	4185	4394	4620
50°	3917	4141	4423
55°	3613	3853	4184
60°	3254	3515	3891
65°	2873	3126	3539
70°	2393	2662	3007
75°	1882	2125	2354
80°	1345	1497	1661
85°	877	877	827



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	4.1
10°-20°	279.3	11.4
20°-30°	408.2	16.7
30°-40°	463.4	19.0
40°-50°	447.3	18.3
50°-60°	369.0	15.1
60°-70°	245.7	10.1
70°-80°	110.0	4.5
80°-90°	19.7	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°	787.0	32.2
0°-40°	1250.3	51.2
0°-60°	2066.6	84.6
0°-90°	2442.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2442.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1056	1056	1056	1056	1056	
5°	1055	1054	1050	1045	1042	100
15°	994	996	994	990	983	280
25°	883	890	894	887	880	404
35°	710	720	753	757	754	445
45°	550	559	577	604	607	424
55°	385	392	411	433	446	344
65°	226	232	246	263	278	224
75°	90	95	102	107	113	99
85°	14	14	14	13	13	19
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1056.1	1056.1	1056.1	1056.1	1056.1
2.5°	1058.9	1059.3	1056.9	1050.4	1046.4
5°	1054.9	1054.5	1050.4	1044.7	1041.5
7.5°	1043.1	1043.9	1042.7	1034.6	1030.1
10°	1031.8	1032.2	1028.9	1022.4	1017.2
12.5°	1017.2	1016.7	1012.3	1009.0	1000.5
15°	994.0	996.5	994.0	989.6	982.7
17.5°	971.7	971.7	973.3	965.6	960.4
20°	946.6	947.8	947.8	941.7	935.6
22.5°	917.3	921.0	922.2	915.7	908.4
25°	882.9	889.8	893.8	887.3	879.6
27.5°	841.1	851.6	863.8	858.9	850.4
30°	794.4	809.8	830.1	826.1	820.0
32.5°	750.2	765.6	793.6	792.0	788.7
35°	710.0	719.8	752.6	756.7	753.8
37.5°	671.9	680.8	711.6	721.0	718.5
40°	631.7	641.5	665.8	682.4	683.2
42.5°	592.0	601.3	621.2	645.1	645.1
45°	549.8	559.1	577.3	603.7	607.0
47.5°	508.4	518.1	536.0	562.3	567.6
50°	467.8	476.7	494.6	520.1	528.3
52.5°	425.6	435.3	452.8	476.3	488.1
55°	385.0	391.5	410.6	433.3	445.9
57.5°	342.8	348.9	370.4	389.9	402.9
60°	302.3	310.0	326.6	346.5	361.5
62.5°	263.3	271.4	285.6	303.1	320.1
65°	225.6	231.7	245.5	262.9	277.9
67.5°	189.1	194.3	208.1	220.3	236.1
70°	152.1	159.0	169.2	181.0	191.1
72.5°	122.5	125.4	133.9	142.4	153.0
75°	90.5	95.3	102.2	107.1	113.2
77.5°	64.9	67.8	71.8	75.9	81.6
80°	43.4	44.6	48.3	49.1	53.6
82.5°	26.4	27.2	28.0	28.4	30.0
85°	14.2	14.2	14.2	13.4	13.4
87.5°	8.1	8.1	6.9	5.7	4.1
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)