

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: P555216

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-82-84-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: P555216
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-35-UNV-82-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

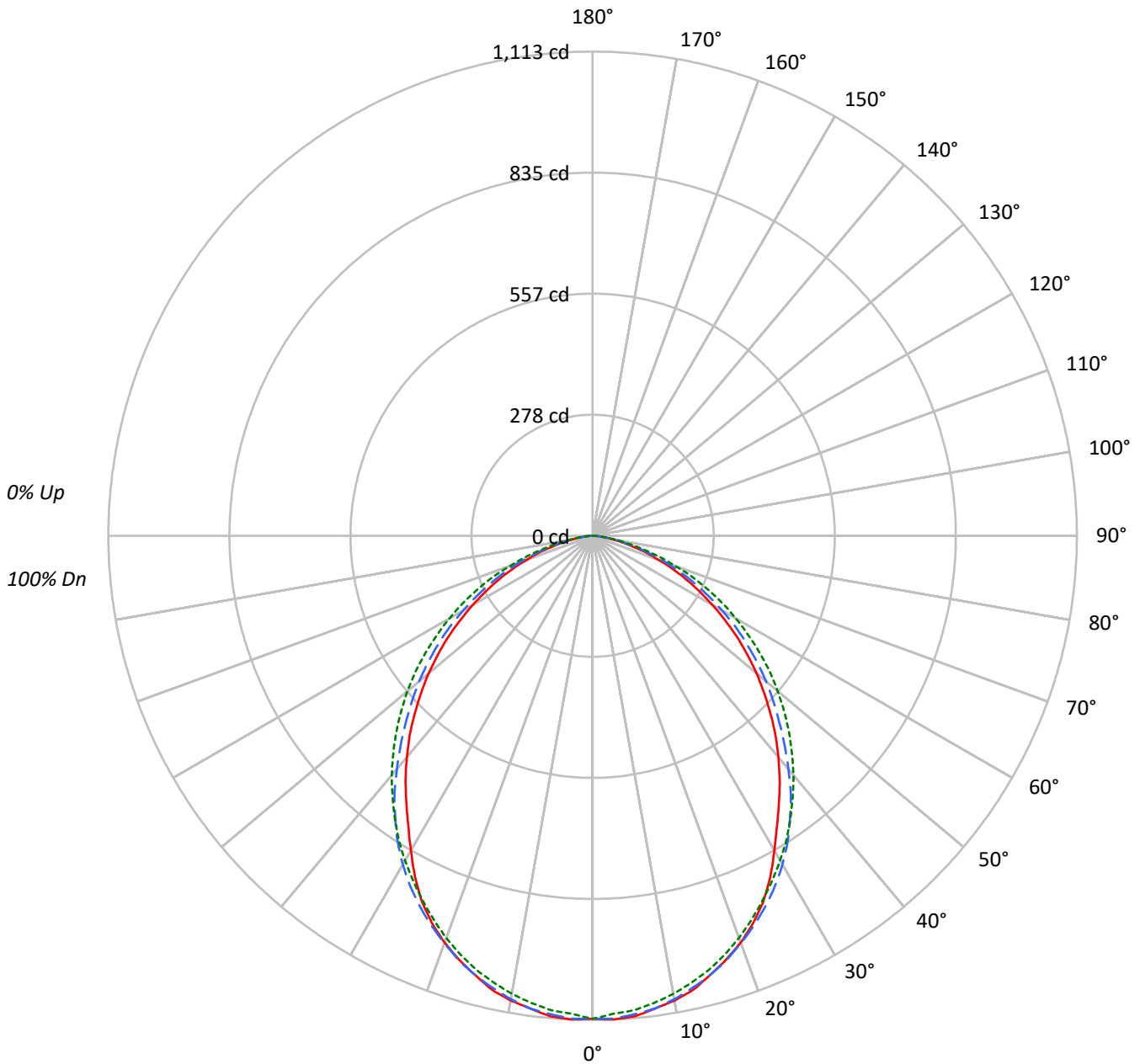
Lumens per Lamp: N/A
Luminaire Lumens: 2567.0 lumens
Efficiency: N/A
Efficacy: 77.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5975	5975	5975
5°	5991	5965	5915
10°	5927	5911	5843
15°	5822	5822	5756
20°	5699	5706	5633
25°	5511	5580	5491
30°	5190	5423	5356
35°	4904	5198	5206
40°	4665	4917	5046
45°	4399	4619	4856
50°	4117	4353	4649
55°	3797	4050	4398
60°	3420	3695	4090
65°	3019	3286	3720
70°	2516	2798	3161
75°	1978	2235	2475
80°	1413	1574	1745
85°	920	920	871



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.5	4.1
10°-20°	293.6	11.4
20°-30°	429.1	16.7
30°-40°	487.1	19.0
40°-50°	470.2	18.3
50°-60°	387.9	15.1
60°-70°	258.3	10.1
70°-80°	115.6	4.5
80°-90°	20.7	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°	827.3	32.2
0°-40°	1314.4	51.2
0°-60°	2172.4	84.6
0°-90°	2567.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2567.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1110	1110	1110	1110	1110	
5°	1109	1108	1104	1098	1095	105
15°	1045	1048	1045	1040	1033	295
25°	928	935	940	933	925	425
35°	746	757	791	795	792	468
45°	578	588	607	635	638	446
55°	405	412	432	456	469	361
65°	237	244	258	276	292	235
75°	95	100	108	113	119	104
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°	1110.2	1110.2	1110.2	1110.2	1110.2
2.5°	1113.1	1113.6	1111.0	1104.2	1099.9
5°	1108.9	1108.5	1104.2	1098.2	1094.8
7.5°	1096.5	1097.4	1096.1	1087.6	1082.9
10°	1084.6	1085.0	1081.6	1074.8	1069.2
12.5°	1069.2	1068.8	1064.1	1060.7	1051.7
15°	1044.9	1047.5	1044.9	1040.2	1033.0
17.5°	1021.5	1021.5	1023.2	1015.1	1009.5
20°	995.0	996.3	996.3	989.9	983.5
22.5°	964.3	968.1	969.4	962.6	954.9
25°	928.0	935.3	939.6	932.7	924.6
27.5°	884.1	895.2	908.0	902.9	893.9
30°	835.1	851.3	872.6	868.3	861.9
32.5°	788.6	804.8	834.2	832.5	829.1
35°	746.4	756.6	791.1	795.4	792.4
37.5°	706.3	715.7	748.1	757.9	755.3
40°	664.0	674.3	699.9	717.4	718.2
42.5°	622.3	632.1	653.0	678.1	678.1
45°	577.9	587.7	606.9	634.6	638.0
47.5°	534.4	544.6	563.4	591.1	596.7
50°	491.7	501.1	519.9	546.8	555.3
52.5°	447.4	457.6	476.0	500.7	513.1
55°	404.7	411.6	431.6	455.5	468.7
57.5°	360.4	366.8	389.4	409.9	423.5
60°	317.7	325.8	343.3	364.2	380.0
62.5°	276.8	285.3	300.3	318.6	336.5
65°	237.1	243.5	258.0	276.4	292.1
67.5°	198.7	204.3	218.8	231.6	248.2
70°	159.9	167.2	177.8	190.2	200.9
72.5°	128.8	131.8	140.7	149.7	160.8
75°	95.1	100.2	107.5	112.6	119.0
77.5°	68.2	71.2	75.5	79.8	85.7
80°	45.6	46.9	50.8	51.6	56.3
82.5°	27.7	28.6	29.4	29.9	31.6
85°	14.9	14.9	14.9	14.1	14.1
87.5°	8.5	8.5	7.3	6.0	4.3
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)