

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: P555140

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-81-86-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: P555140
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-30-UNV-81-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

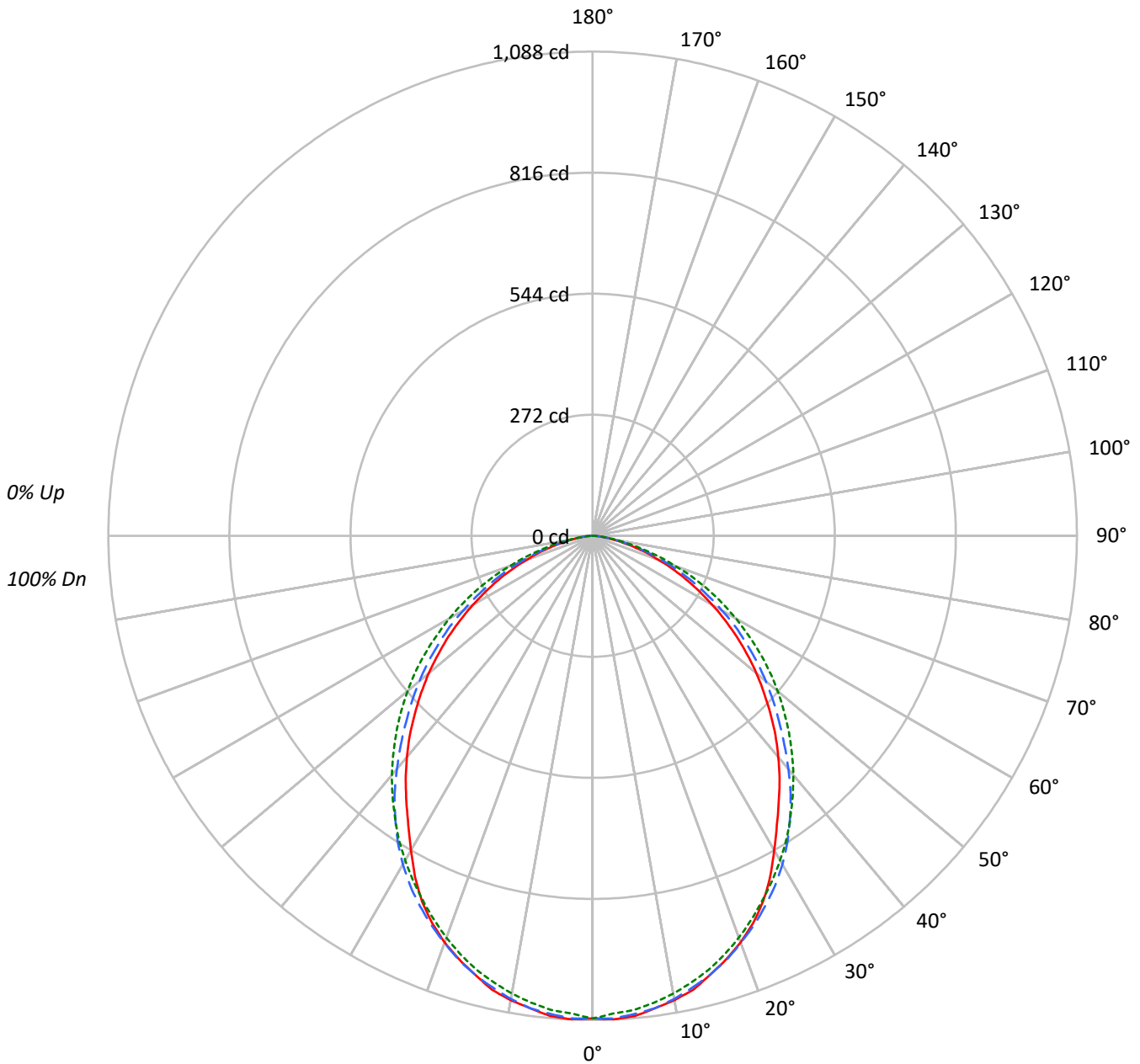
Lumens per Lamp: N/A
Luminaire Lumens: 2508.0 lumens
Efficiency: N/A
Efficacy: 75.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	5837	5837	5837
5°	5853	5828	5779
10°	5791	5775	5709
15°	5688	5688	5623
20°	5568	5575	5503
25°	5384	5451	5365
30°	5070	5298	5233
35°	4791	5079	5087
40°	4558	4804	4930
45°	4297	4513	4745
50°	4022	4253	4542
55°	3710	3957	4297
60°	3341	3610	3997
65°	2951	3210	3635
70°	2460	2735	3089
75°	1932	2183	2418
80°	1382	1537	1705
85°	902	902	852



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	4.1
10°-20°	286.9	11.4
20°-30°	419.2	16.7
30°-40°	475.9	19.0
40°-50°	459.4	18.3
50°-60°	379.0	15.1
60°-70°	252.4	10.1
70°-80°	112.9	4.5
80°-90°	20.2	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°	808.3	32.2
0°-40°	1284.1	51.2
0°-60°	2122.5	84.6
0°-90°	2508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2508.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1085	1085	1085	1085	1085	
5°	1083	1083	1079	1073	1070	103
15°	1021	1023	1021	1016	1009	288
25°	907	914	918	911	903	415
35°	729	739	773	777	774	457
45°	565	574	593	620	623	436
55°	395	402	422	445	458	353
65°	232	238	252	270	285	230
75°	93	98	105	110	116	102
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°	1084.6	1084.6	1084.6	1084.6	1084.6
2.5°	1087.6	1088.0	1085.5	1078.8	1074.6
5°	1083.4	1083.0	1078.8	1073.0	1069.6
7.5°	1071.3	1072.1	1070.9	1062.6	1058.0
10°	1059.6	1060.1	1056.7	1050.1	1044.6
12.5°	1044.6	1044.2	1039.6	1036.3	1027.6
15°	1020.9	1023.4	1020.9	1016.3	1009.2
17.5°	998.0	998.0	999.6	991.7	986.3
20°	972.1	973.4	973.4	967.1	960.9
22.5°	942.1	945.9	947.1	940.5	933.0
25°	906.7	913.8	918.0	911.3	903.4
27.5°	863.8	874.6	887.1	882.1	873.4
30°	815.9	831.7	852.5	848.4	842.1
32.5°	770.5	786.3	815.0	813.4	810.0
35°	729.2	739.2	773.0	777.1	774.2
37.5°	690.0	699.2	730.9	740.5	738.0
40°	648.8	658.8	683.8	700.9	701.7
42.5°	608.0	617.5	638.0	662.5	662.5
45°	564.6	574.2	593.0	620.0	623.4
47.5°	522.1	532.1	550.4	577.5	582.9
50°	480.4	489.6	507.9	534.2	542.5
52.5°	437.1	447.1	465.0	489.2	501.3
55°	395.4	402.1	421.7	445.0	457.9
57.5°	352.1	358.4	380.4	400.4	413.8
60°	310.4	318.4	335.4	355.9	371.3
62.5°	270.4	278.8	293.4	311.3	328.8
65°	231.7	237.9	252.1	270.0	285.4
67.5°	194.2	199.6	213.8	226.3	242.5
70°	156.3	163.3	173.8	185.8	196.3
72.5°	125.8	128.8	137.5	146.3	157.1
75°	92.9	97.9	105.0	110.0	116.3
77.5°	66.7	69.6	73.8	77.9	83.8
80°	44.6	45.8	49.6	50.4	55.0
82.5°	27.1	27.9	28.8	29.2	30.8
85°	14.6	14.6	14.6	13.8	13.8
87.5°	8.3	8.3	7.1	5.8	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)