

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: P555193

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-88-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: P555193
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-80-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

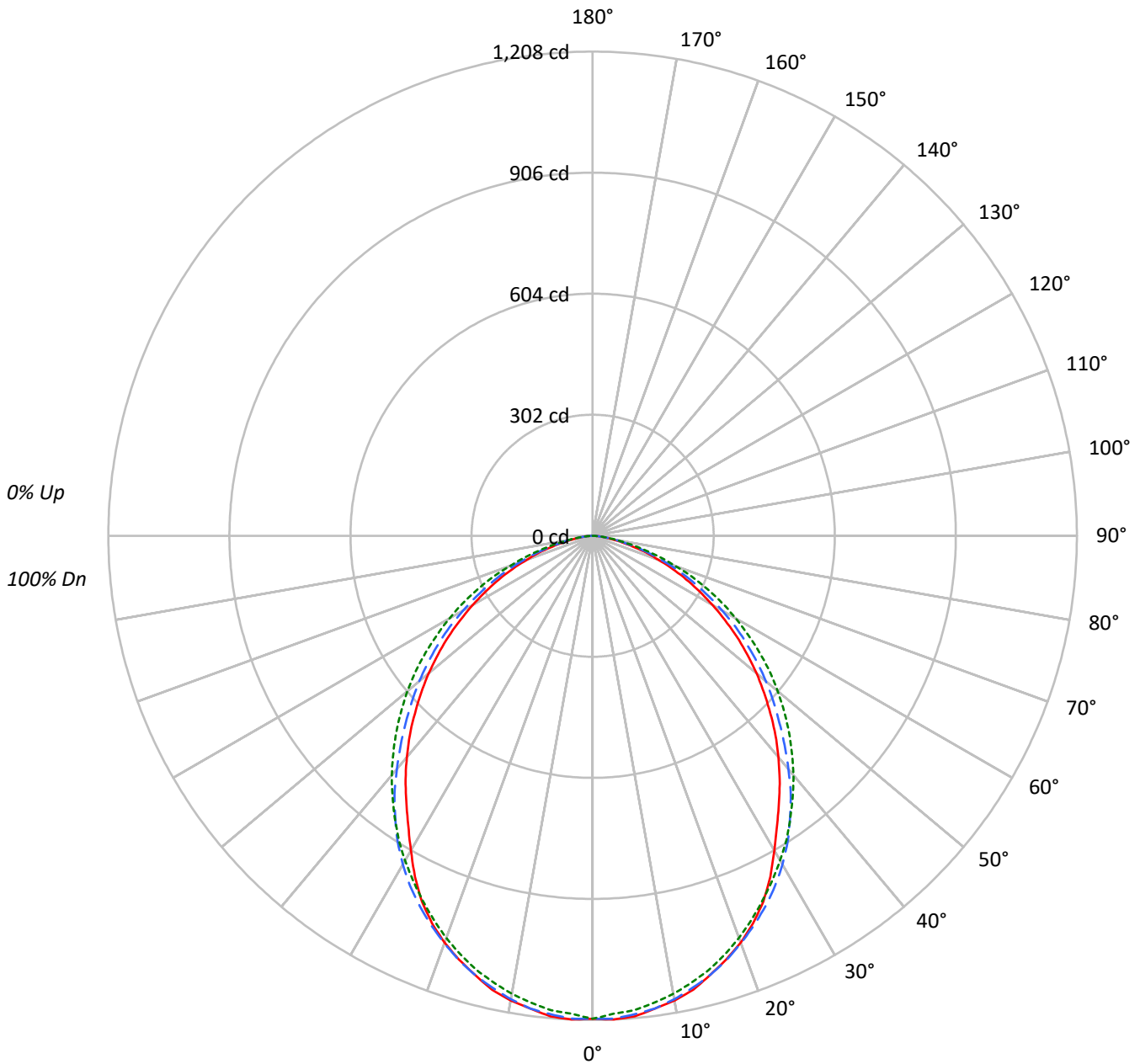
Lumens per Lamp: N/A
Luminaire Lumens: 2786.0 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6485	6485	6485
5°	6502	6474	6419
10°	6433	6415	6342
15°	6319	6319	6247
20°	6185	6193	6113
25°	5981	6055	5959
30°	5632	5885	5814
35°	5322	5641	5650
40°	5063	5337	5476
45°	4774	5014	5271
50°	4469	4724	5046
55°	4122	4395	4773
60°	3711	4011	4439
65°	3278	3566	4038
70°	2732	3037	3430
75°	2146	2425	2685
80°	1534	1708	1894
85°	1000	1000	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.4	4.1
10°-20°	318.7	11.4
20°-30°	465.7	16.7
30°-40°	528.6	19.0
40°-50°	510.3	18.3
50°-60°	421.0	15.1
60°-70°	280.3	10.1
70°-80°	125.4	4.5
80°-90°	22.4	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°	897.8	32.2
0°-40°	1426.5	51.2
0°-60°	2357.8	84.6
0°-90°	2786.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2786.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1204	1203	1198	1192	1188	114
15°	1134	1137	1134	1129	1121	320
25°	1007	1015	1020	1012	1004	461
35°	810	821	859	863	860	508
45°	627	638	659	689	692	484
55°	439	447	468	494	509	392
65°	257	264	280	300	317	255
75°	103	109	117	122	129	113
85°	16	16	16	15	15	22
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1204.9	1204.9	1204.9	1204.9	1204.9
2.5°	1208.1	1208.6	1205.8	1198.4	1193.8
5°	1203.5	1203.0	1198.4	1191.9	1188.2
7.5°	1190.1	1191.0	1189.6	1180.3	1175.2
10°	1177.1	1177.6	1173.9	1166.5	1160.4
12.5°	1160.4	1160.0	1154.9	1151.2	1141.5
15°	1134.1	1136.8	1134.1	1129.0	1121.1
17.5°	1108.6	1108.6	1110.4	1101.7	1095.6
20°	1079.9	1081.3	1081.3	1074.3	1067.4
22.5°	1046.6	1050.7	1052.1	1044.7	1036.4
25°	1007.2	1015.1	1019.7	1012.3	1003.5
27.5°	959.5	971.6	985.5	979.9	970.2
30°	906.3	923.9	947.0	942.4	935.5
32.5°	855.9	873.5	905.4	903.5	899.8
35°	810.0	821.1	858.6	863.3	860.0
37.5°	766.5	776.7	811.9	822.5	819.8
40°	720.7	731.8	759.6	778.6	779.5
42.5°	675.3	686.0	708.7	736.0	736.0
45°	627.2	637.8	658.7	688.8	692.5
47.5°	580.0	591.1	611.5	641.5	647.6
50°	533.7	543.9	564.2	593.4	602.7
52.5°	485.6	496.7	516.6	543.4	556.8
55°	439.3	446.7	468.4	494.4	508.7
57.5°	391.1	398.1	422.6	444.8	459.6
60°	344.8	353.6	372.6	395.3	412.4
62.5°	300.4	309.7	325.9	345.8	365.2
65°	257.4	264.3	280.0	299.9	317.1
67.5°	215.7	221.7	237.5	251.3	269.4
70°	173.6	181.4	193.0	206.4	218.0
72.5°	139.8	143.0	152.7	162.5	174.5
75°	103.2	108.8	116.6	122.2	129.1
77.5°	74.1	77.3	81.9	86.6	93.0
80°	49.5	50.9	55.1	56.0	61.1
82.5°	30.1	31.0	31.9	32.4	34.3
85°	16.2	16.2	16.2	15.3	15.3
87.5°	9.3	9.3	7.9	6.5	4.6
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)