

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: P555732

Luminaire Tested: **FUSL-12-2-LD4-3LO-35-UNV-82-86-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: P555732
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-LD4-3LO-35-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

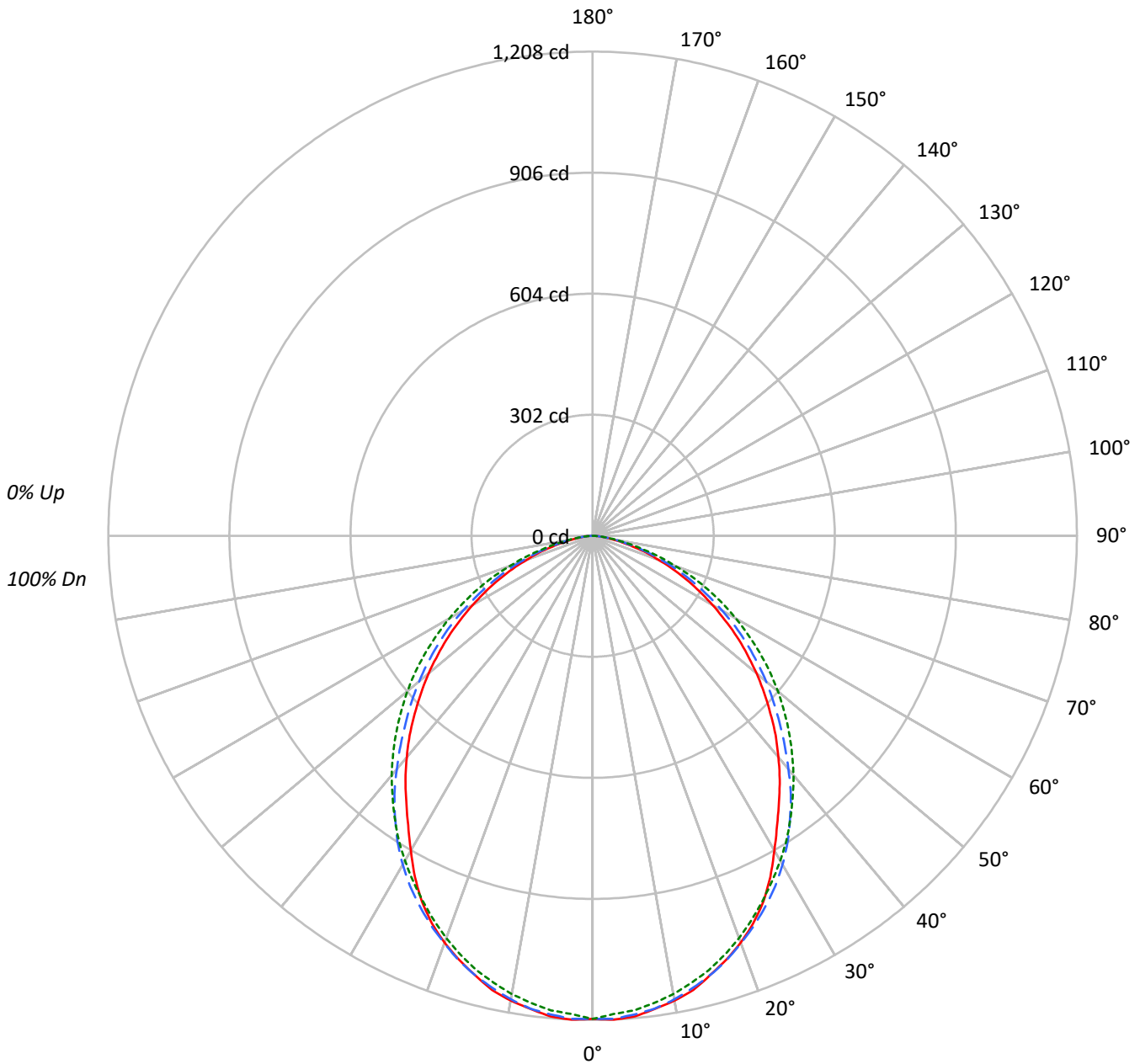
Lumens per Lamp: N/A
Luminaire Lumens: 2787.0 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	6487	6487	6487
5°	6504	6477	6421
10°	6435	6418	6344
15°	6321	6321	6249
20°	6187	6195	6116
25°	5983	6058	5961
30°	5634	5888	5816
35°	5324	5643	5652
40°	5065	5339	5479
45°	4775	5015	5272
50°	4470	4726	5048
55°	4123	4397	4775
60°	3714	4013	4441
65°	3279	3567	4039
70°	2732	3039	3432
75°	2148	2427	2687
80°	1534	1708	1894
85°	1000	1000	945



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.5	4.1
10°-20°	318.8	11.4
20°-30°	465.9	16.7
30°-40°	528.8	19.0
40°-50°	510.5	18.3
50°-60°	421.1	15.1
60°-70°	280.4	10.1
70°-80°	125.5	4.5
80°-90°	22.5	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°	898.2	32.2
0°-40°	1427.0	51.2
0°-60°	2358.6	84.6
0°-90°	2787.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2787.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1205	1205	1205	1205	1205	
5°	1204	1204	1199	1192	1189	114
15°	1134	1137	1134	1129	1122	320
25°	1008	1016	1020	1013	1004	461
35°	810	821	859	864	860	508
45°	627	638	659	689	693	484
55°	439	447	469	494	509	392
65°	258	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°	1205.3	1205.3	1205.3	1205.3	1205.3
2.5°	1208.5	1209.0	1206.2	1198.8	1194.2
5°	1203.9	1203.5	1198.8	1192.3	1188.6
7.5°	1190.5	1191.4	1190.0	1180.8	1175.7
10°	1177.5	1178.0	1174.3	1166.9	1160.9
12.5°	1160.9	1160.4	1155.3	1151.6	1141.9
15°	1134.5	1137.2	1134.5	1129.4	1121.5
17.5°	1109.0	1109.0	1110.8	1102.0	1096.0
20°	1080.3	1081.7	1081.7	1074.7	1067.8
22.5°	1046.9	1051.1	1052.5	1045.1	1036.8
25°	1007.6	1015.5	1020.1	1012.7	1003.9
27.5°	959.9	971.9	985.8	980.3	970.5
30°	906.6	924.2	947.4	942.8	935.8
32.5°	856.2	873.8	905.7	903.9	900.2
35°	810.3	821.4	858.9	863.6	860.3
37.5°	766.8	777.0	812.2	822.8	820.1
40°	721.0	732.1	759.9	778.8	779.8
42.5°	675.6	686.2	708.9	736.2	736.2
45°	627.4	638.1	658.9	689.0	692.7
47.5°	580.2	591.3	611.7	641.8	647.8
50°	533.9	544.1	564.5	593.6	602.9
52.5°	485.7	496.8	516.8	543.6	557.0
55°	439.4	446.8	468.6	494.5	508.9
57.5°	391.3	398.2	422.8	445.0	459.8
60°	345.0	353.8	372.8	395.4	412.6
62.5°	300.5	309.8	326.0	345.9	365.3
65°	257.5	264.4	280.1	300.1	317.2
67.5°	215.8	221.8	237.5	251.4	269.5
70°	173.6	181.5	193.1	206.5	218.1
72.5°	139.8	143.1	152.8	162.5	174.6
75°	103.3	108.8	116.7	122.2	129.2
77.5°	74.1	77.3	82.0	86.6	93.1
80°	49.5	50.9	55.1	56.0	61.1
82.5°	30.1	31.0	32.0	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)