

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: P555184

Luminaire Tested: **FUSL-12-2-LD4-2STD-35-UNV-80-84-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: P555184
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-80-84-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC 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

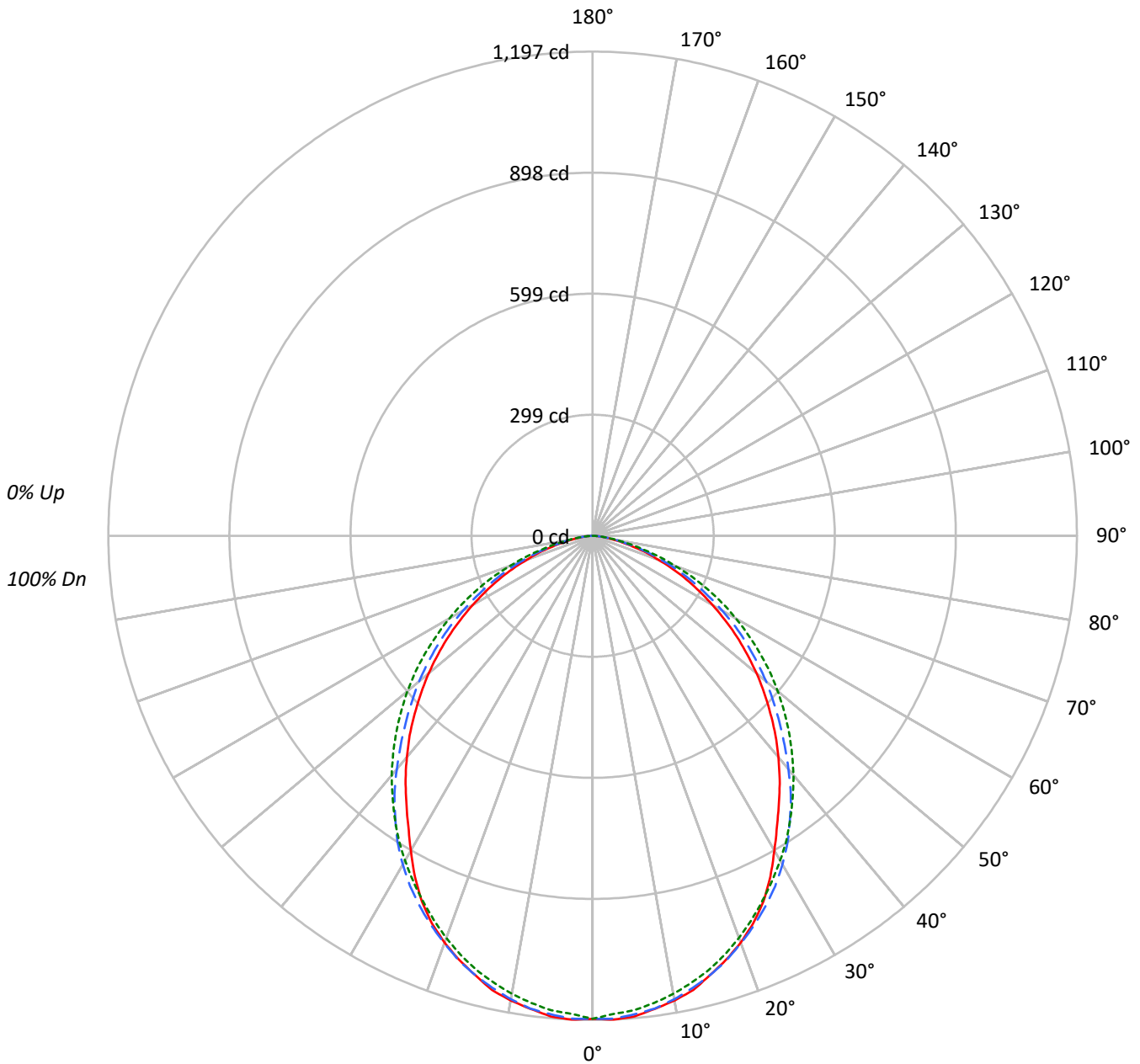
Lumens per Lamp: N/A
Luminaire Lumens: 2761.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	6427	6427	6427
5°	6444	6416	6361
10°	6375	6357	6285
15°	6262	6262	6190
20°	6129	6137	6058
25°	5928	6001	5906
30°	5582	5833	5762
35°	5275	5591	5600
40°	5018	5289	5427
45°	4731	4969	5224
50°	4428	4682	5001
55°	4084	4356	4730
60°	3679	3975	4399
65°	3249	3534	4001
70°	2707	3010	3401
75°	2127	2404	2662
80°	1522	1692	1878
85°	994	994	932



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	112.4	4.1
10°-20°	315.8	11.4
20°-30°	461.5	16.7
30°-40°	523.9	19.0
40°-50°	505.7	18.3
50°-60°	417.2	15.1
60°-70°	277.8	10.1
70°-80°	124.3	4.5
80°-90°	22.2	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°	889.8	32.2
0°-40°	1413.7	51.2
0°-60°	2336.6	84.6
0°-90°	2761.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1194	1194	1194	1194	1194	
5°	1193	1192	1188	1181	1178	113
15°	1124	1127	1124	1119	1111	317
25°	998	1006	1011	1003	994	457
35°	803	814	851	856	852	503
45°	622	632	653	683	686	480
55°	435	443	464	490	504	389
65°	255	262	278	297	314	253
75°	102	108	116	121	128	112
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°	1194.1	1194.1	1194.1	1194.1	1194.1
2.5°	1197.3	1197.7	1195.0	1187.6	1183.1
5°	1192.7	1192.2	1187.6	1181.2	1177.5
7.5°	1179.4	1180.3	1178.9	1169.7	1164.7
10°	1166.5	1167.0	1163.3	1156.0	1150.0
12.5°	1150.0	1149.6	1144.5	1140.8	1131.2
15°	1123.9	1126.6	1123.9	1118.8	1111.0
17.5°	1098.6	1098.6	1100.5	1091.8	1085.8
20°	1070.2	1071.6	1071.6	1064.7	1057.8
22.5°	1037.2	1041.3	1042.7	1035.3	1027.1
25°	998.2	1006.0	1010.6	1003.2	994.5
27.5°	950.9	962.9	976.6	971.1	961.5
30°	898.2	915.6	938.6	934.0	927.1
32.5°	848.2	865.6	897.3	895.4	891.8
35°	802.8	813.8	850.9	855.5	852.3
37.5°	759.6	769.7	804.6	815.2	812.4
40°	714.2	725.2	752.8	771.6	772.5
42.5°	669.3	679.8	702.3	729.4	729.4
45°	621.6	632.1	652.8	682.6	686.3
47.5°	574.8	585.8	606.0	635.8	641.8
50°	528.9	539.0	559.2	588.1	597.3
52.5°	481.2	492.2	511.9	538.5	551.8
55°	435.3	442.7	464.2	489.9	504.1
57.5°	387.6	394.5	418.8	440.8	455.5
60°	341.8	350.5	369.3	391.8	408.7
62.5°	297.7	306.9	322.9	342.7	361.9
65°	255.1	261.9	277.5	297.3	314.2
67.5°	213.8	219.7	235.3	249.1	267.0
70°	172.0	179.8	191.3	204.6	216.1
72.5°	138.5	141.7	151.4	161.0	172.9
75°	102.3	107.8	115.6	121.1	128.0
77.5°	73.4	76.6	81.2	85.8	92.2
80°	49.1	50.5	54.6	55.5	60.6
82.5°	29.8	30.7	31.7	32.1	33.9
85°	16.1	16.1	16.1	15.1	15.1
87.5°	9.2	9.2	7.8	6.4	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)