

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: P554744

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-80-88-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: P554744
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-LD4-2HI-40-UNV-80-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

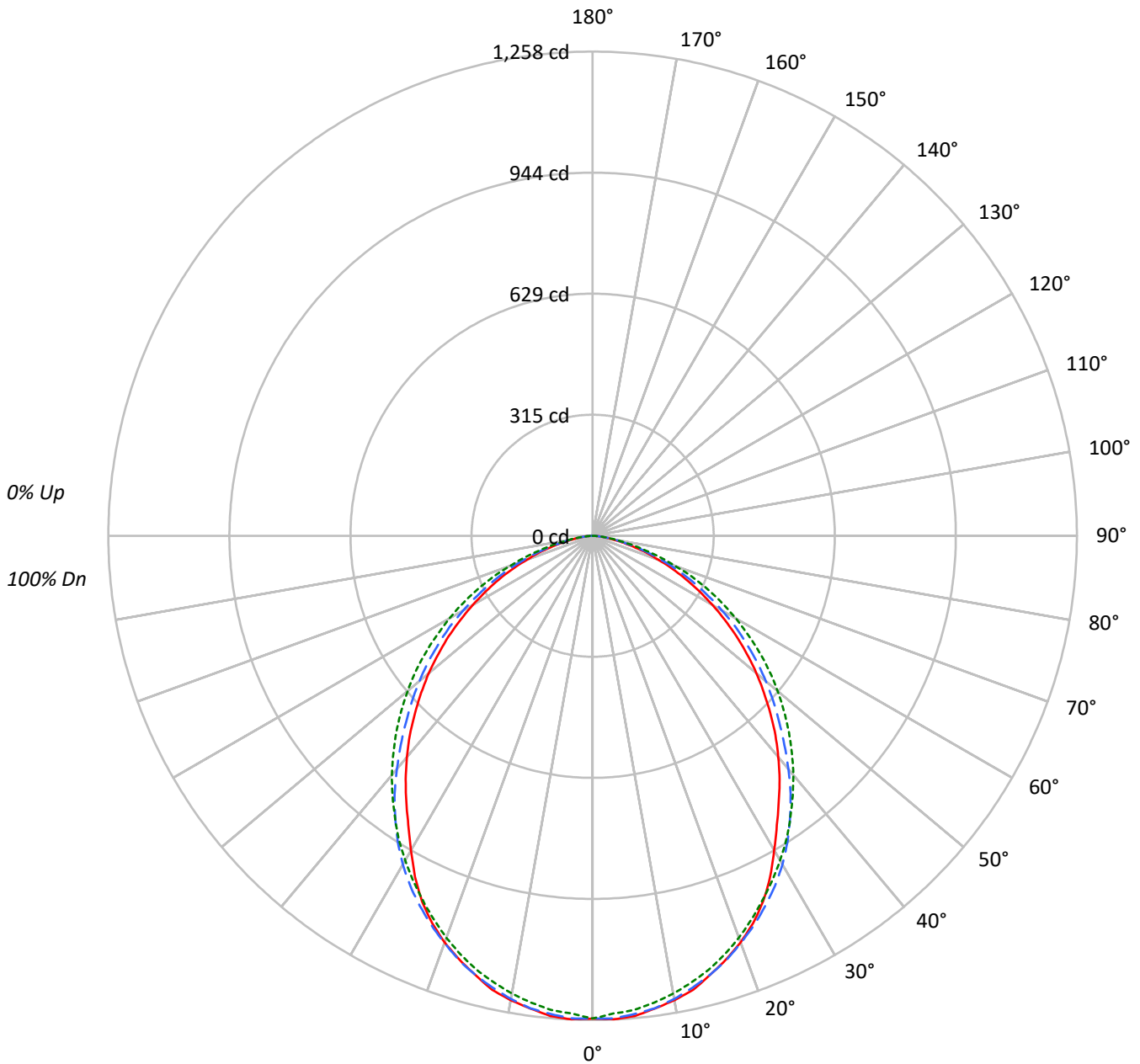
Lumens per Lamp: N/A
Luminaire Lumens: 2900.0 lumens
Efficiency: N/A
Efficacy: 67.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	6750	6750	6750
5°	6768	6739	6682
10°	6696	6678	6601
15°	6578	6578	6502
20°	6438	6446	6364
25°	6226	6303	6203
30°	5863	6126	6052
35°	5540	5872	5882
40°	5271	5555	5701
45°	4969	5218	5486
50°	4651	4917	5252
55°	4290	4575	4968
60°	3864	4175	4621
65°	3412	3712	4202
70°	2843	3161	3570
75°	2233	2524	2795
80°	1599	1776	1971
85°	1044	1044	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	4.1
10°-20°	331.7	11.4
20°-30°	484.8	16.7
30°-40°	550.3	19.0
40°-50°	531.2	18.3
50°-60°	438.2	15.1
60°-70°	291.8	10.1
70°-80°	130.6	4.5
80°-90°	23.4	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°	934.6	32.2
0°-40°	1484.9	51.2
0°-60°	2454.3	84.6
0°-90°	2900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2900.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1254	1254	1254	1254	1254	
5°	1253	1252	1247	1241	1237	119
15°	1180	1183	1180	1175	1167	333
25°	1048	1057	1061	1054	1045	480
35°	843	855	894	899	895	528
45°	653	664	686	717	721	504
55°	457	465	488	515	530	408
65°	268	275	292	312	330	266
75°	107	113	121	127	134	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1254.2	1254.2	1254.2	1254.2	1254.2
2.5°	1257.5	1258.0	1255.1	1247.4	1242.6
5°	1252.7	1252.2	1247.4	1240.7	1236.8
7.5°	1238.8	1239.7	1238.3	1228.6	1223.3
10°	1225.3	1225.7	1221.9	1214.2	1207.9
12.5°	1207.9	1207.4	1202.1	1198.3	1188.2
15°	1180.5	1183.3	1180.5	1175.2	1167.0
17.5°	1154.0	1154.0	1155.9	1146.7	1140.5
20°	1124.1	1125.5	1125.5	1118.3	1111.1
22.5°	1089.4	1093.7	1095.2	1087.5	1078.8
25°	1048.4	1056.6	1061.4	1053.7	1044.6
27.5°	998.8	1011.3	1025.8	1020.0	1009.9
30°	943.4	961.7	985.8	981.0	973.8
32.5°	890.9	909.2	942.4	940.5	936.7
35°	843.2	854.7	893.8	898.6	895.2
37.5°	797.9	808.5	845.1	856.2	853.3
40°	750.2	761.8	790.7	810.4	811.4
42.5°	703.0	714.1	737.7	766.1	766.1
45°	652.9	663.9	685.6	716.9	720.8
47.5°	603.7	615.3	636.5	667.8	674.1
50°	555.5	566.1	587.3	617.7	627.3
52.5°	505.4	517.0	537.7	565.7	579.6
55°	457.2	465.0	487.6	514.6	529.5
57.5°	407.1	414.4	439.9	463.0	478.4
60°	359.0	368.1	387.9	411.5	429.3
62.5°	312.7	322.3	339.2	359.9	380.2
65°	267.9	275.1	291.5	312.2	330.0
67.5°	224.5	230.8	247.2	261.6	280.4
70°	180.7	188.9	200.9	214.9	226.9
72.5°	145.5	148.9	159.0	169.1	181.6
75°	107.4	113.2	121.4	127.2	134.4
77.5°	77.1	80.5	85.3	90.1	96.8
80°	51.6	53.0	57.3	58.3	63.6
82.5°	31.3	32.3	33.2	33.7	35.7
85°	16.9	16.9	16.9	15.9	15.9
87.5°	9.6	9.6	8.2	6.7	4.8
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)