

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: P554761

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-81-88-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: P554761
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-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

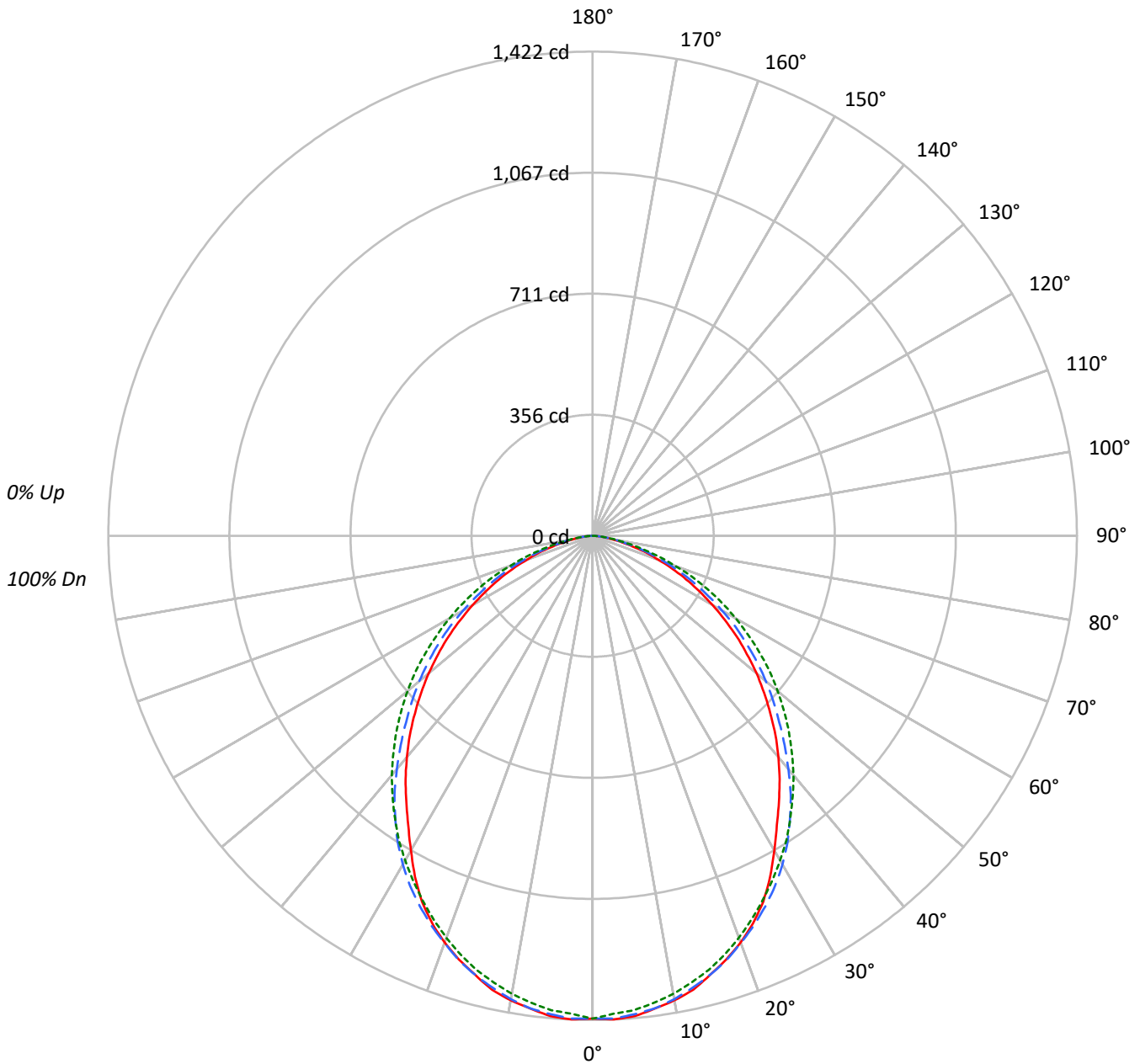
Lumens per Lamp: N/A
Luminaire Lumens: 3279.0 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	7632	7632	7632
5°	7652	7620	7555
10°	7571	7550	7464
15°	7437	7437	7352
20°	7279	7289	7195
25°	7040	7127	7014
30°	6629	6927	6842
35°	6264	6640	6650
40°	5959	6281	6445
45°	5619	5900	6203
50°	5259	5560	5939
55°	4851	5173	5618
60°	4369	4721	5225
65°	3857	4197	4753
70°	3215	3575	4038
75°	2527	2855	3161
80°	1807	2008	2228
85°	1179	1179	1112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.5	4.1
10°-20°	375.1	11.4
20°-30°	548.1	16.7
30°-40°	622.2	19.0
40°-50°	600.6	18.3
50°-60°	495.5	15.1
60°-70°	330.0	10.1
70°-80°	147.6	4.5
80°-90°	26.4	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°	1056.7	32.2
0°-40°	1678.9	51.2
0°-60°	2775.0	84.6
0°-90°	3279.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3279.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1416	1416	1410	1403	1398	134
15°	1335	1338	1335	1329	1320	376
25°	1186	1195	1200	1192	1181	543
35°	953	966	1011	1016	1012	597
45°	738	751	775	811	815	570
55°	517	526	551	582	599	461
65°	303	311	330	353	373	300
75°	122	128	137	144	152	133
85°	19	19	19	18	18	26
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.1	1418.1	1418.1	1418.1	1418.1
2.5°	1421.9	1422.4	1419.2	1410.5	1405.0
5°	1416.4	1415.9	1410.5	1402.8	1398.5
7.5°	1400.6	1401.7	1400.1	1389.2	1383.2
10°	1385.4	1385.9	1381.6	1372.9	1365.8
12.5°	1365.8	1365.2	1359.2	1354.9	1343.4
15°	1334.7	1338.0	1334.7	1328.7	1319.5
17.5°	1304.8	1304.8	1306.9	1296.6	1289.5
20°	1271.0	1272.6	1272.6	1264.5	1256.3
22.5°	1231.8	1236.7	1238.3	1229.6	1219.8
25°	1185.5	1194.7	1200.2	1191.5	1181.1
27.5°	1129.3	1143.5	1159.9	1153.3	1141.9
30°	1066.7	1087.4	1114.6	1109.2	1101.0
32.5°	1007.3	1028.0	1065.6	1063.4	1059.1
35°	953.4	966.5	1010.6	1016.0	1012.2
37.5°	902.2	914.2	955.6	968.1	964.8
40°	848.2	861.3	894.0	916.3	917.4
42.5°	794.8	807.4	834.1	866.2	866.2
45°	738.2	750.7	775.2	810.6	815.0
47.5°	682.6	695.7	719.7	755.1	762.2
50°	628.1	640.1	664.1	698.4	709.3
52.5°	571.5	584.6	608.0	639.6	655.4
55°	517.0	525.7	551.3	581.8	598.7
57.5°	460.3	468.5	497.4	523.5	541.0
60°	405.9	416.2	438.6	465.2	485.4
62.5°	353.6	364.5	383.5	407.0	429.8
65°	302.9	311.1	329.6	353.0	373.2
67.5°	253.9	261.0	279.5	295.8	317.1
70°	204.3	213.6	227.2	243.0	256.6
72.5°	164.5	168.3	179.8	191.2	205.4
75°	121.5	128.0	137.3	143.8	152.0
77.5°	87.2	91.0	96.4	101.9	109.5
80°	58.3	59.9	64.8	65.9	71.9
82.5°	35.4	36.5	37.6	38.1	40.3
85°	19.1	19.1	19.1	18.0	18.0
87.5°	10.9	10.9	9.3	7.6	5.4
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)