

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: P554646

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-82-87-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: P554646
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-30-UNV-82-87-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .375 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

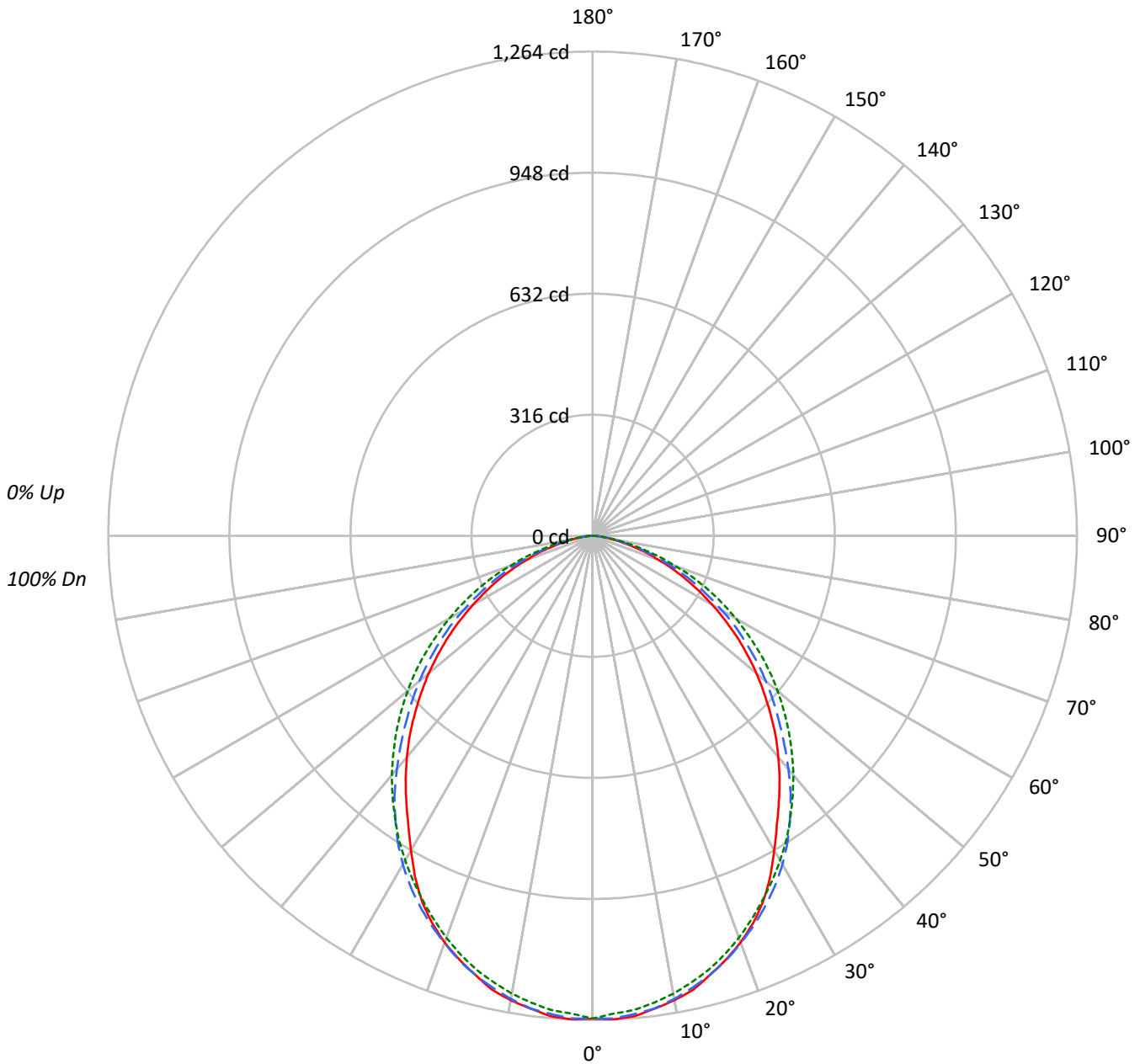
Lumens per Lamp: N/A
Luminaire Lumens: 2914.0 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P554646

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-82-87-EDD-90

Luminous Intensity Polar Plot





TEST NUMBER: P554646

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-82-87-EDD-90

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°	6782	6782	6782
5°	6801	6772	6714
10°	6728	6710	6633
15°	6609	6609	6534
20°	6469	6478	6394
25°	6256	6334	6233
30°	5891	6156	6081
35°	5567	5901	5910
40°	5296	5582	5728
45°	4993	5243	5513
50°	4674	4942	5278
55°	4312	4598	4993
60°	3883	4195	4644
65°	3428	3730	4223
70°	2858	3177	3588
75°	2246	2537	2809
80°	1605	1785	1980
85°	1044	1044	988



TEST NUMBER: P554646

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-82-87-EDD-90

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	4.1
10°-20°	333.3	11.4
20°-30°	487.1	16.7
30°-40°	552.9	19.0
40°-50°	533.8	18.3
50°-60°	440.3	15.1
60°-70°	293.2	10.1
70°-80°	131.2	4.5
80°-90°	23.5	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°	939.1	32.2
0°-40°	1492.0	51.2
0°-60°	2466.1	84.6
0°-90°	2914.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2914.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1260	1260	1260	1260	1260	
5°	1259	1258	1254	1247	1243	119
15°	1186	1189	1186	1181	1173	334
25°	1054	1062	1067	1059	1050	482
35°	847	859	898	903	900	531
45°	656	667	689	720	724	506
55°	460	467	490	517	532	410
65°	269	276	293	314	332	267
75°	108	114	122	128	135	118
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



TEST NUMBER: P554646

CATALOG NUMBER: FUSL-12-2-LD4-2HI-30-UNV-82-87-EDD-90

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1260.2	1260.2	1260.2	1260.2	1260.2
2.5°	1263.6	1264.1	1261.2	1253.5	1248.6
5°	1258.8	1258.3	1253.5	1246.7	1242.8
7.5°	1244.7	1245.7	1244.3	1234.6	1229.2
10°	1231.2	1231.7	1227.8	1220.0	1213.8
12.5°	1213.8	1213.3	1207.9	1204.1	1193.9
15°	1186.2	1189.1	1186.2	1180.8	1172.6
17.5°	1159.5	1159.5	1161.5	1152.3	1146.0
20°	1129.5	1131.0	1131.0	1123.7	1116.4
22.5°	1094.7	1099.0	1100.5	1092.7	1084.0
25°	1053.5	1061.7	1066.6	1058.8	1049.6
27.5°	1003.6	1016.2	1030.7	1024.9	1014.8
30°	948.0	966.4	990.6	985.7	978.5
32.5°	895.2	913.6	947.0	945.1	941.2
35°	847.3	858.9	898.1	902.9	899.5
37.5°	801.7	812.4	849.2	860.3	857.4
40°	753.8	765.4	794.5	814.3	815.3
42.5°	706.4	717.5	741.2	769.8	769.8
45°	656.0	667.2	688.9	720.4	724.3
47.5°	606.6	618.3	639.6	671.0	677.3
50°	558.2	568.9	590.2	620.7	630.4
52.5°	507.9	519.5	540.3	568.4	582.4
55°	459.5	467.2	490.0	517.1	532.1
57.5°	409.1	416.4	442.0	465.3	480.8
60°	360.7	369.9	389.7	413.5	431.4
62.5°	314.2	323.9	340.8	361.7	382.0
65°	269.2	276.4	292.9	313.7	331.6
67.5°	225.6	231.9	248.4	262.9	281.8
70°	181.6	189.8	201.9	215.9	228.0
72.5°	146.2	149.6	159.8	169.9	182.5
75°	108.0	113.8	122.0	127.8	135.1
77.5°	77.5	80.9	85.7	90.5	97.3
80°	51.8	53.3	57.6	58.6	63.9
82.5°	31.5	32.4	33.4	33.9	35.8
85°	16.9	16.9	16.9	16.0	16.0
87.5°	9.7	9.7	8.2	6.8	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)