

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: P555297

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-93-84-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: P555297
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-40-UNV-93-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR TEMPERED GLASS FIXTURE SIDE AND .125 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

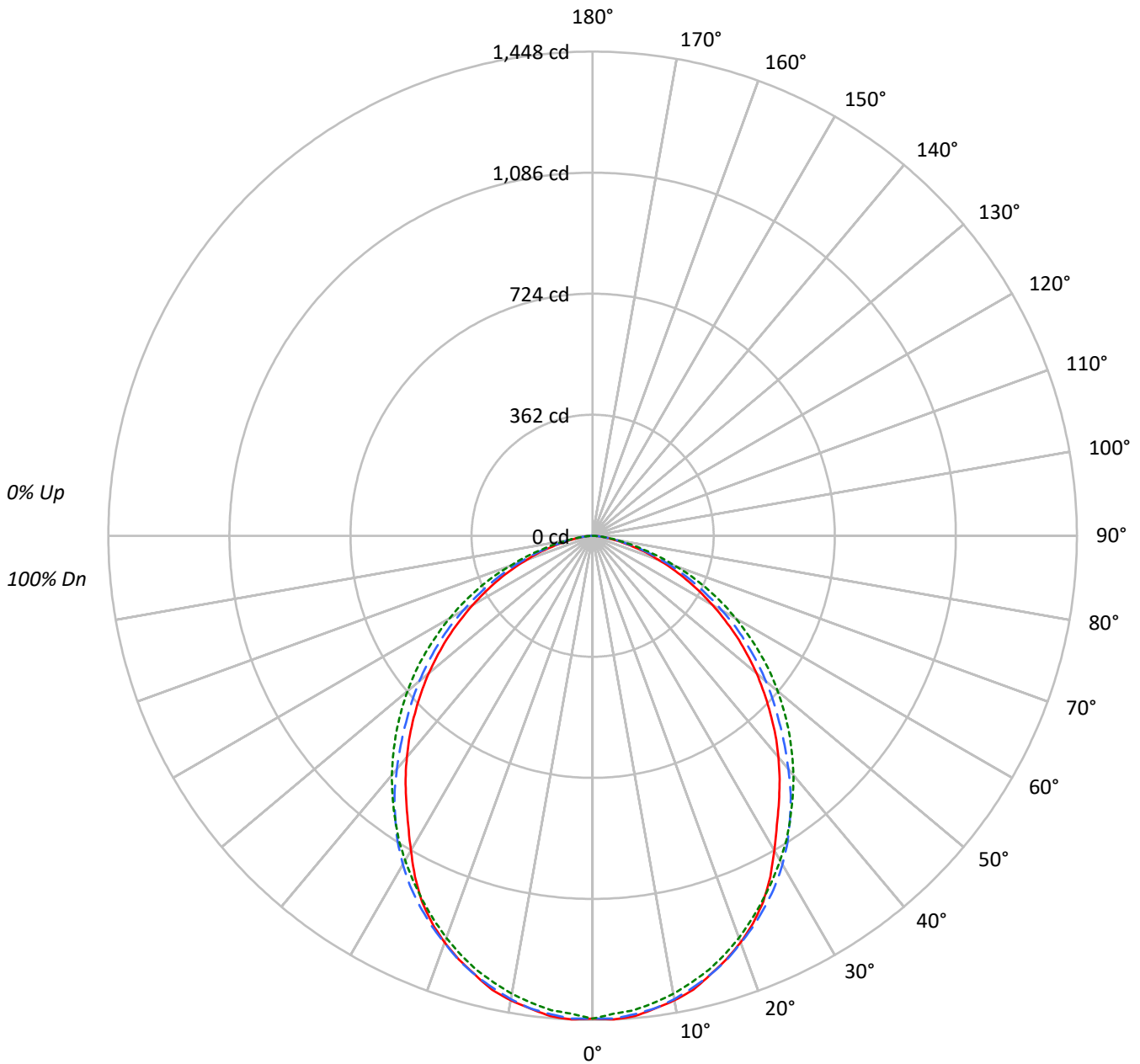
Lumens per Lamp: N/A
Luminaire Lumens: 3339.0 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
Input Voltage (V): NR
Input Current (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

TEST NUMBER: P555297

CATALOG NUMBER: FUSL-12-2-LD4-2STD-40-UNV-93-84-EDD

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°	7772	7772	7772
5°	7793	7760	7694
10°	7709	7689	7601
15°	7573	7573	7486
20°	7412	7422	7327
25°	7169	7257	7142
30°	6750	7054	6968
35°	6378	6761	6772
40°	6069	6396	6563
45°	5721	6008	6317
50°	5355	5662	6048
55°	4940	5268	5721
60°	4449	4807	5321
65°	3927	4274	4839
70°	3273	3640	4112
75°	2572	2907	3219
80°	1841	2046	2269
85°	1198	1198	1130



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.0	4.1
10°-20°	382.0	11.4
20°-30°	558.2	16.7
30°-40°	633.6	19.0
40°-50°	611.6	18.3
50°-60°	504.5	15.1
60°-70°	336.0	10.1
70°-80°	150.3	4.5
80°-90°	26.9	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°	1076.1	32.2
0°-40°	1709.6	51.2
0°-60°	2825.8	84.6
0°-90°	3339.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3339.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1444	1444	1444	1444	1444	
5°	1442	1442	1436	1428	1424	137
15°	1359	1362	1359	1353	1344	383
25°	1207	1217	1222	1213	1203	553
35°	971	984	1029	1035	1031	608
45°	752	764	789	826	830	580
55°	526	535	561	592	610	470
65°	308	317	336	360	380	306
75°	124	130	140	146	155	135
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°	1444.0	1444.0	1444.0	1444.0	1444.0
2.5°	1447.9	1448.5	1445.1	1436.3	1430.7
5°	1442.4	1441.8	1436.3	1428.5	1424.1
7.5°	1426.3	1427.4	1425.7	1414.6	1408.5
10°	1410.7	1411.3	1406.9	1398.0	1390.8
12.5°	1390.8	1390.2	1384.1	1379.7	1368.0
15°	1359.2	1362.5	1359.2	1353.1	1343.6
17.5°	1328.6	1328.6	1330.9	1320.3	1313.1
20°	1294.2	1295.9	1295.9	1287.6	1279.3
22.5°	1254.3	1259.3	1261.0	1252.1	1242.1
25°	1207.2	1216.6	1222.1	1213.3	1202.7
27.5°	1150.0	1164.4	1181.1	1174.4	1162.8
30°	1086.2	1107.3	1135.0	1129.5	1121.2
32.5°	1025.7	1046.8	1085.1	1082.9	1078.4
35°	970.8	984.1	1029.1	1034.6	1030.7
37.5°	918.7	930.9	973.0	985.8	982.5
40°	863.8	877.1	910.4	933.1	934.2
42.5°	809.4	822.1	849.3	882.1	882.1
45°	751.7	764.5	789.4	825.5	829.9
47.5°	695.1	708.4	732.8	768.9	776.1
50°	639.6	651.8	676.2	711.2	722.3
52.5°	581.9	595.3	619.1	651.3	667.4
55°	526.5	535.3	561.4	592.5	609.7
57.5°	468.8	477.1	506.5	533.1	550.9
60°	413.3	423.8	446.6	473.8	494.3
62.5°	360.0	371.1	390.5	414.4	437.7
65°	308.4	316.8	335.6	359.5	380.0
67.5°	258.5	265.7	284.6	301.2	322.9
70°	208.0	217.5	231.3	247.4	261.3
72.5°	167.5	171.4	183.1	194.7	209.1
75°	123.7	130.4	139.8	146.5	154.8
77.5°	88.8	92.6	98.2	103.7	111.5
80°	59.4	61.0	66.0	67.1	73.2
82.5°	36.1	37.2	38.3	38.8	41.1
85°	19.4	19.4	19.4	18.3	18.3
87.5°	11.1	11.1	9.4	7.8	5.5
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)