

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: P555976

Luminaire Tested: **FUSL-12-2-LD4-3STD-35-UNV-81-88-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: P555976
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-LD4-3STD-35-UNV-81-88-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

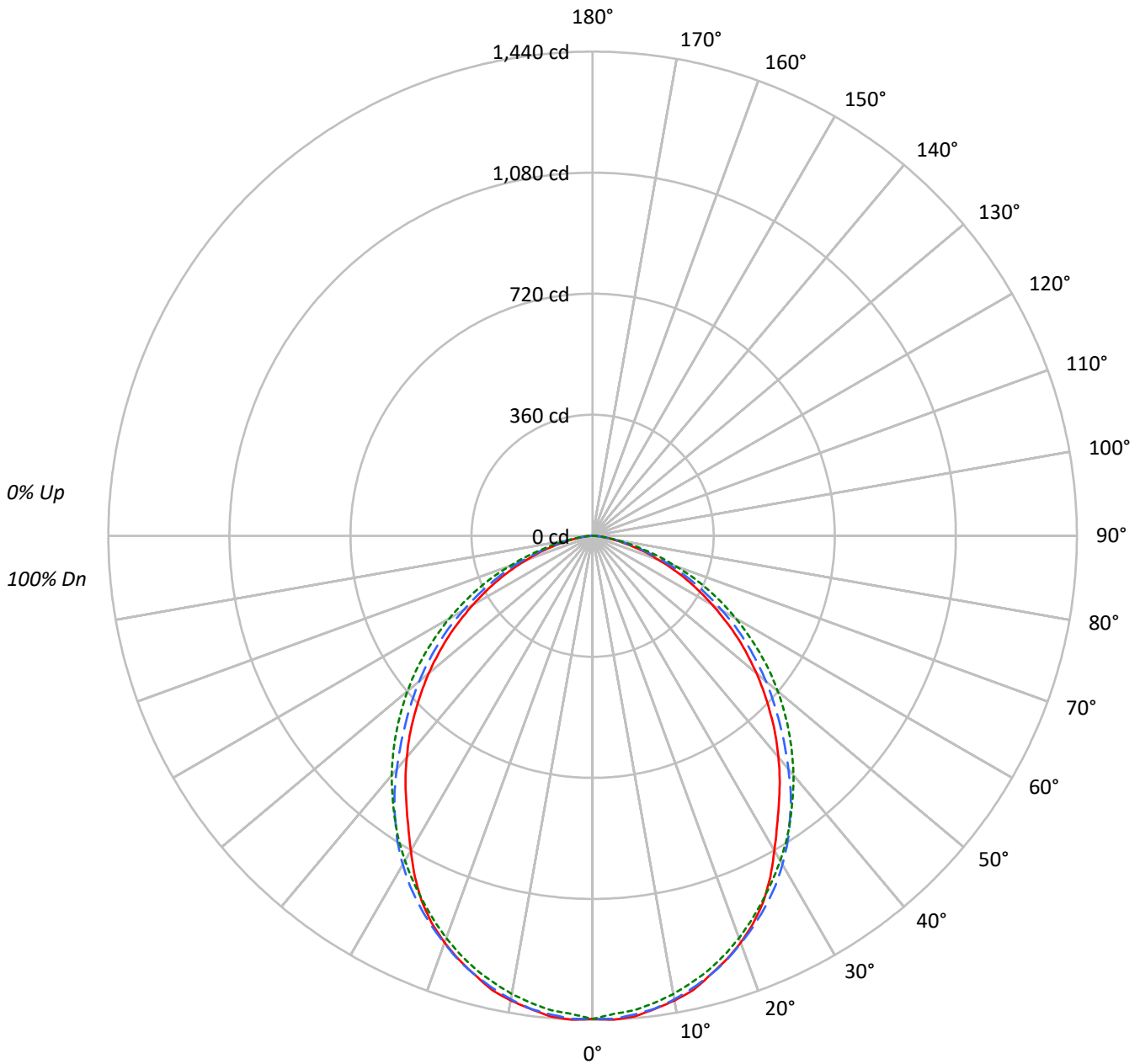
Lumens per Lamp: N/A
Luminaire Lumens: 3322.0 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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: P555976

CATALOG NUMBER: FUSL-12-2-LD4-3STD-35-UNV-81-88-EDD-90

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86					86			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73					73			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63					63			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54					54			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47					47			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42					42			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37					37			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34					34			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28					28			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7732	7732	7732
5°	7753	7720	7654
10°	7671	7649	7562
15°	7534	7534	7448
20°	7375	7384	7290
25°	7132	7220	7106
30°	6716	7018	6932
35°	6346	6727	6738
40°	6038	6363	6530
45°	5692	5978	6285
50°	5328	5633	6017
55°	4915	5241	5692
60°	4426	4782	5294
65°	3908	4252	4815
70°	3257	3622	4091
75°	2560	2892	3202
80°	1832	2036	2259
85°	1192	1192	1124



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	4.1
10°-20°	380.0	11.4
20°-30°	555.3	16.7
30°-40°	630.3	19.0
40°-50°	608.5	18.3
50°-60°	502.0	15.1
60°-70°	334.3	10.1
70°-80°	149.6	4.5
80°-90°	26.8	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°	1070.6	32.2
0°-40°	1700.9	51.2
0°-60°	2811.4	84.6
0°-90°	3322.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3322.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1437	1437	1437	1437	1437	
5°	1435	1434	1429	1421	1417	136
15°	1352	1356	1352	1346	1337	381
25°	1201	1210	1216	1207	1197	550
35°	966	979	1024	1029	1026	605
45°	748	761	785	821	826	577
55°	524	533	559	590	607	468
65°	307	315	334	358	378	304
75°	123	130	139	146	154	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°	1436.7	1436.7	1436.7	1436.7	1436.7
2.5°	1440.5	1441.1	1437.8	1429.0	1423.4
5°	1435.0	1434.5	1429.0	1421.2	1416.8
7.5°	1419.0	1420.1	1418.5	1407.4	1401.4
10°	1403.6	1404.1	1399.7	1390.9	1383.7
12.5°	1383.7	1383.1	1377.1	1372.7	1361.1
15°	1352.2	1355.5	1352.2	1346.2	1336.8
17.5°	1321.9	1321.9	1324.1	1313.6	1306.4
20°	1287.7	1289.3	1289.3	1281.0	1272.8
22.5°	1247.9	1252.9	1254.5	1245.7	1235.8
25°	1201.0	1210.4	1215.9	1207.1	1196.6
27.5°	1144.2	1158.5	1175.1	1168.4	1156.8
30°	1080.7	1101.7	1129.3	1123.7	1115.5
32.5°	1020.5	1041.5	1079.6	1077.4	1073.0
35°	965.9	979.1	1023.8	1029.4	1025.5
37.5°	914.0	926.1	968.1	980.8	977.5
40°	859.4	872.6	905.7	928.3	929.5
42.5°	805.3	818.0	845.0	877.6	877.6
45°	747.9	760.6	785.4	821.3	825.7
47.5°	691.6	704.8	729.1	765.0	772.2
50°	636.4	648.5	672.8	707.6	718.6
52.5°	579.0	592.2	616.0	648.0	664.0
55°	523.8	532.6	558.6	589.5	606.6
57.5°	466.4	474.7	503.9	530.4	548.1
60°	411.2	421.7	444.3	471.3	491.8
62.5°	358.2	369.2	388.6	412.3	435.5
65°	306.9	315.2	333.9	357.7	378.1
67.5°	257.2	264.4	283.1	299.7	321.2
70°	207.0	216.4	230.2	246.2	260.0
72.5°	166.7	170.5	182.1	193.7	208.1
75°	123.1	129.7	139.1	145.7	154.0
77.5°	88.3	92.2	97.7	103.2	110.9
80°	59.1	60.7	65.7	66.8	72.9
82.5°	35.9	37.0	38.1	38.6	40.8
85°	19.3	19.3	19.3	18.2	18.2
87.5°	11.0	11.0	9.4	7.7	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)