

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: P555269

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-81-86-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: P555269
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-81-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

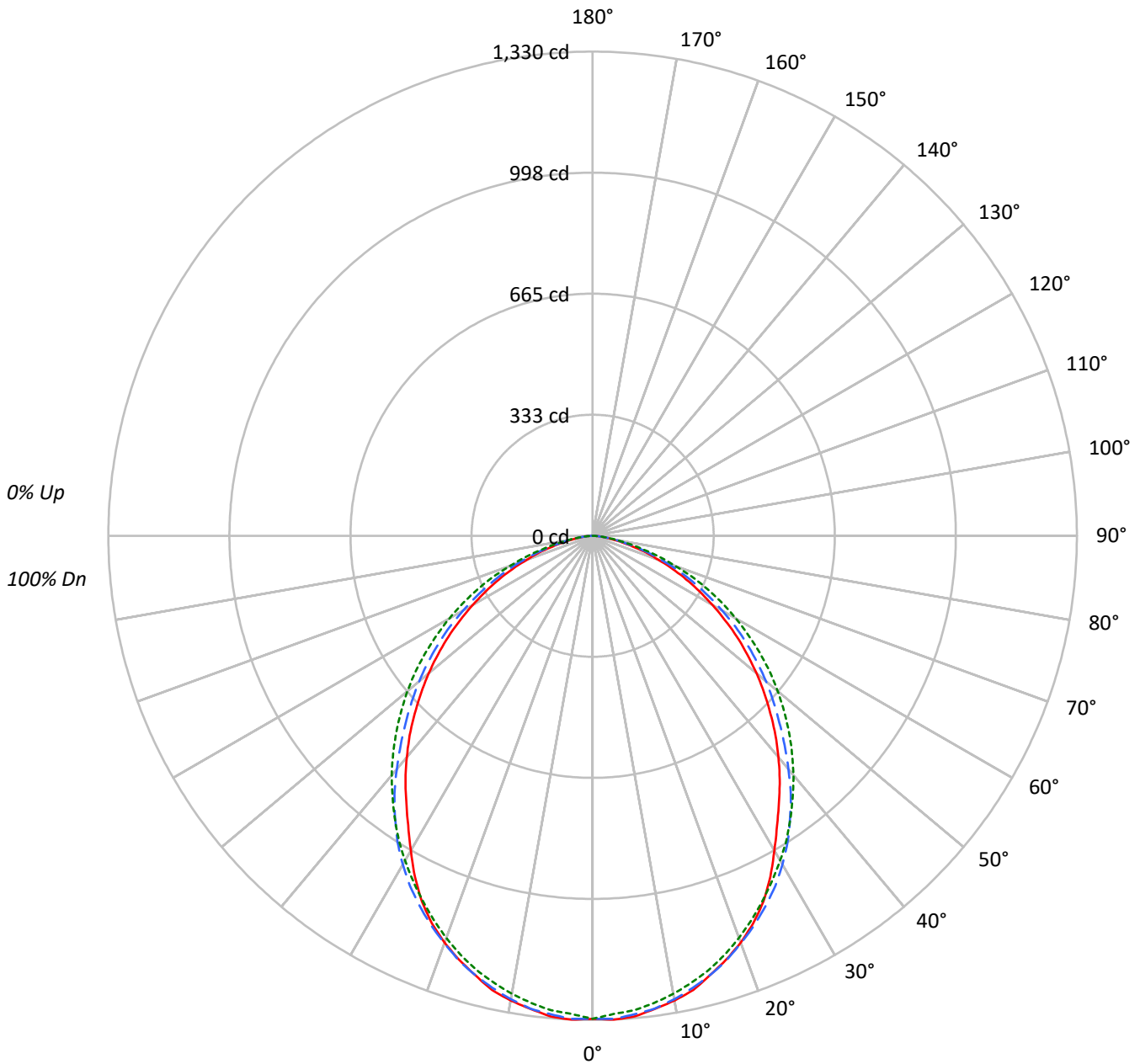
Lumens per Lamp: N/A
Luminaire Lumens: 3068.0 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 33.3
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°	7141	7141	7141
5°	7160	7130	7069
10°	7084	7065	6984
15°	6958	6958	6879
20°	6811	6820	6732
25°	6587	6668	6562
30°	6203	6481	6402
35°	5861	6213	6223
40°	5576	5877	6031
45°	5257	5520	5804
50°	4921	5203	5557
55°	4539	4840	5256
60°	4087	4416	4889
65°	3609	3927	4447
70°	3007	3345	3778
75°	2364	2672	2957
80°	1689	1881	2086
85°	1099	1099	1037



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.9	4.1
10°-20°	350.9	11.4
20°-30°	512.9	16.7
30°-40°	582.1	19.0
40°-50°	562.0	18.3
50°-60°	463.6	15.1
60°-70°	308.7	10.1
70°-80°	138.1	4.5
80°-90°	24.7	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°	988.7	32.2
0°-40°	1570.9	51.2
0°-60°	2596.4	84.6
0°-90°	3068.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3068.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1327	1327	1327	1327	1327	
5°	1325	1325	1320	1313	1308	125
15°	1249	1252	1249	1243	1235	352
25°	1109	1118	1123	1115	1105	508
35°	892	904	946	951	947	559
45°	691	702	725	758	763	533
55°	484	492	516	544	560	432
65°	283	291	308	330	349	281
75°	114	120	128	135	142	124
85°	18	18	18	17	17	24
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1326.8	1326.8	1326.8	1326.8	1326.8
2.5°	1330.4	1330.9	1327.9	1319.7	1314.6
5°	1325.3	1324.8	1319.7	1312.6	1308.5
7.5°	1310.5	1311.5	1310.0	1299.8	1294.2
10°	1296.2	1296.8	1292.7	1284.5	1277.9
12.5°	1277.9	1277.4	1271.8	1267.7	1257.0
15°	1248.8	1251.9	1248.8	1243.2	1234.6
17.5°	1220.8	1220.8	1222.8	1213.2	1206.5
20°	1189.2	1190.7	1190.7	1183.1	1175.4
22.5°	1152.5	1157.1	1158.6	1150.5	1141.3
25°	1109.2	1117.8	1122.9	1114.8	1105.1
27.5°	1056.7	1069.9	1085.2	1079.1	1068.4
30°	998.1	1017.4	1042.9	1037.8	1030.2
32.5°	942.5	961.9	997.0	995.0	990.9
35°	892.0	904.3	945.6	950.6	947.1
37.5°	844.1	855.3	894.1	905.8	902.7
40°	793.7	805.9	836.5	857.4	858.4
42.5°	743.7	755.4	780.4	810.5	810.5
45°	690.7	702.4	725.3	758.5	762.6
47.5°	638.7	650.9	673.4	706.5	713.1
50°	587.7	598.9	621.4	653.5	663.7
52.5°	534.7	546.9	568.9	598.4	613.2
55°	483.7	491.9	515.8	544.4	560.2
57.5°	430.7	438.4	465.4	489.9	506.2
60°	379.7	389.4	410.3	435.3	454.2
62.5°	330.8	341.0	358.9	380.8	402.2
65°	283.4	291.1	308.4	330.3	349.2
67.5°	237.5	244.2	261.5	276.8	296.7
70°	191.1	199.8	212.6	227.3	240.1
72.5°	153.9	157.5	168.2	178.9	192.2
75°	113.7	119.8	128.5	134.6	142.2
77.5°	81.6	85.1	90.2	95.3	102.5
80°	54.5	56.1	60.7	61.7	67.3
82.5°	33.1	34.2	35.2	35.7	37.7
85°	17.8	17.8	17.8	16.8	16.8
87.5°	10.2	10.2	8.7	7.1	5.1
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)