

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: P555251

Luminaire Tested: **FUSL-12-2-LD4-2STD-40-UNV-80-85-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: P555251
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-80-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

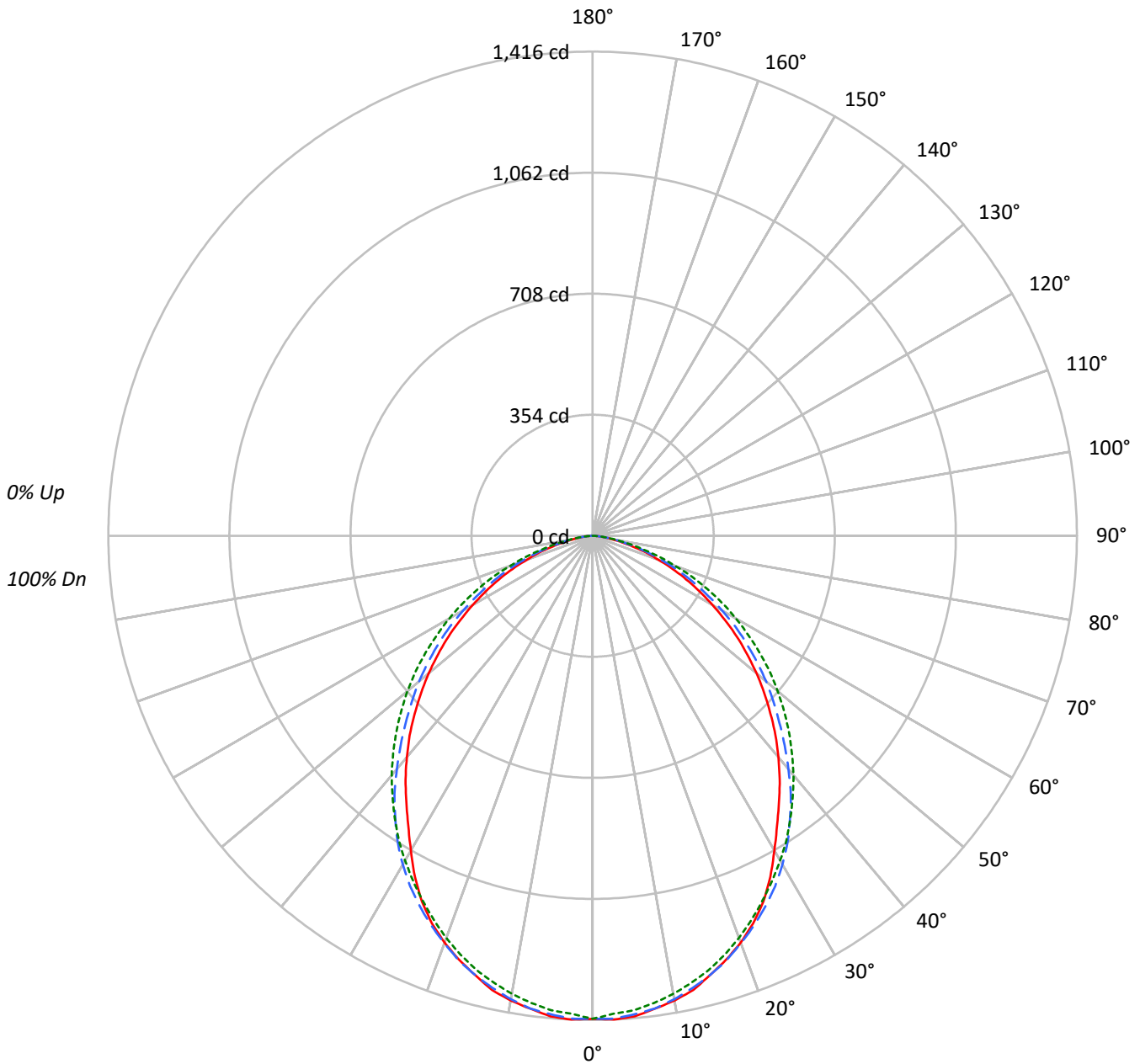
Lumens per Lamp: N/A
Luminaire Lumens: 3266.0 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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

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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°	7602	7602	7602
5°	7622	7590	7525
10°	7541	7520	7435
15°	7407	7407	7322
20°	7251	7260	7167
25°	7012	7099	6986
30°	6603	6899	6815
35°	6239	6614	6624
40°	5936	6256	6420
45°	5597	5877	6179
50°	5239	5539	5915
55°	4832	5152	5595
60°	4352	4702	5204
65°	3842	4181	4734
70°	3202	3561	4022
75°	2516	2843	3148
80°	1801	2002	2219
85°	1173	1173	1105



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.0	4.1
10°-20°	373.6	11.4
20°-30°	546.0	16.7
30°-40°	619.7	19.0
40°-50°	598.2	18.3
50°-60°	493.5	15.1
60°-70°	328.6	10.1
70°-80°	147.1	4.5
80°-90°	26.3	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°	1052.5	32.2
0°-40°	1672.3	51.2
0°-60°	2764.0	84.6
0°-90°	3266.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3266.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1412	1412	1412	1412	1412	
5°	1411	1410	1405	1397	1393	134
15°	1329	1333	1329	1324	1314	375
25°	1181	1190	1195	1187	1176	541
35°	950	963	1007	1012	1008	595
45°	735	748	772	807	812	567
55°	515	524	549	580	596	460
65°	302	310	328	352	372	299
75°	121	128	137	143	151	132
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°	1412.5	1412.5	1412.5	1412.5	1412.5
2.5°	1416.3	1416.8	1413.5	1404.9	1399.4
5°	1410.8	1410.3	1404.9	1397.3	1392.9
7.5°	1395.1	1396.2	1394.6	1383.7	1377.7
10°	1379.9	1380.4	1376.1	1367.4	1360.4
12.5°	1360.4	1359.8	1353.9	1349.5	1338.1
15°	1329.4	1332.7	1329.4	1323.5	1314.2
17.5°	1299.6	1299.6	1301.8	1291.5	1284.4
20°	1266.0	1267.6	1267.6	1259.4	1251.3
22.5°	1226.9	1231.8	1233.4	1224.7	1214.9
25°	1180.8	1190.0	1195.4	1186.7	1176.4
27.5°	1124.9	1139.0	1155.3	1148.7	1137.3
30°	1062.5	1083.1	1110.2	1104.8	1096.7
32.5°	1003.3	1023.9	1061.4	1059.2	1054.9
35°	949.6	962.6	1006.6	1012.0	1008.2
37.5°	898.6	910.5	951.8	964.2	961.0
40°	844.9	857.9	890.5	912.7	913.8
42.5°	791.7	804.2	830.8	862.8	862.8
45°	735.3	747.7	772.2	807.4	811.8
47.5°	679.9	692.9	716.8	752.1	759.1
50°	625.7	637.6	661.5	695.6	706.5
52.5°	569.2	582.2	605.6	637.0	652.8
55°	515.0	523.6	549.1	579.5	596.3
57.5°	458.5	466.7	495.4	521.5	538.8
60°	404.3	414.6	436.8	463.4	483.5
62.5°	352.2	363.0	382.0	405.3	428.1
65°	301.7	309.8	328.3	351.6	371.7
67.5°	252.9	259.9	278.4	294.6	315.8
70°	203.5	212.7	226.3	242.0	255.6
72.5°	163.9	167.7	179.1	190.5	204.6
75°	121.0	127.5	136.7	143.3	151.4
77.5°	86.8	90.6	96.0	101.5	109.1
80°	58.1	59.7	64.6	65.7	71.6
82.5°	35.3	36.4	37.4	38.0	40.2
85°	19.0	19.0	19.0	17.9	17.9
87.5°	10.9	10.9	9.2	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)