

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: P555131

Luminaire Tested: **FUSL-12-2-LD4-2STD-30-UNV-80-94-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: P555131
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-30-UNV-80-94-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .125 PRISMATIC ACRYLIC FIXTURE SIDE AND
.187 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND
3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

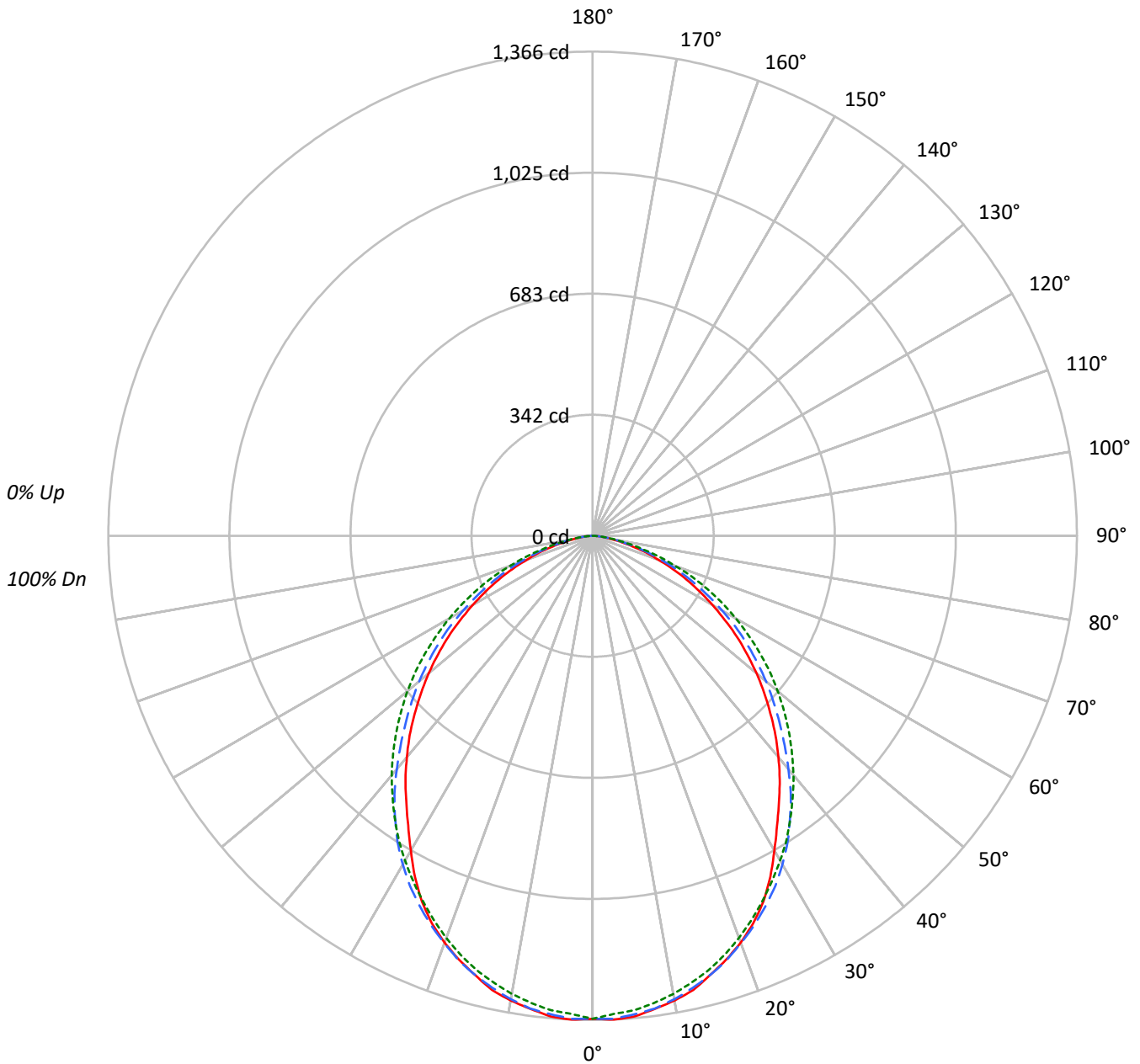
Lumens per Lamp: N/A
Luminaire Lumens: 3151.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	7334	7334	7334
5°	7354	7323	7260
10°	7276	7256	7173
15°	7146	7146	7065
20°	6995	7004	6914
25°	6765	6849	6740
30°	6371	6656	6575
35°	6020	6380	6391
40°	5727	6036	6194
45°	5399	5670	5961
50°	5054	5344	5707
55°	4662	4971	5398
60°	4198	4536	5021
65°	3707	4033	4567
70°	3089	3435	3880
75°	2427	2743	3038
80°	1736	1931	2142
85°	1130	1130	1068



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.3	4.1
10°-20°	360.4	11.4
20°-30°	526.7	16.7
30°-40°	597.9	19.0
40°-50°	577.2	18.3
50°-60°	476.1	15.1
60°-70°	317.1	10.1
70°-80°	141.9	4.5
80°-90°	25.4	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°	1015.5	32.2
0°-40°	1613.4	51.2
0°-60°	2666.7	84.6
0°-90°	3151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3151.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1363	1363	1363	1363	1363	
5°	1361	1361	1355	1348	1344	129
15°	1283	1286	1283	1277	1268	362
25°	1139	1148	1153	1145	1135	522
35°	916	929	971	976	973	574
45°	709	721	745	779	783	547
55°	497	505	530	559	575	443
65°	291	299	317	339	359	289
75°	117	123	132	138	146	128
85°	18	18	18	17	17	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1362.7	1362.7	1362.7	1362.7	1362.7
2.5°	1366.4	1366.9	1363.8	1355.4	1350.2
5°	1361.2	1360.6	1355.4	1348.1	1343.9
7.5°	1346.0	1347.0	1345.4	1335.0	1329.2
10°	1331.3	1331.8	1327.7	1319.3	1312.5
12.5°	1312.5	1311.9	1306.2	1302.0	1291.0
15°	1282.6	1285.8	1282.6	1276.9	1268.0
17.5°	1253.8	1253.8	1255.9	1246.0	1239.2
20°	1221.4	1222.9	1222.9	1215.1	1207.2
22.5°	1183.7	1188.4	1190.0	1181.6	1172.2
25°	1139.2	1148.1	1153.3	1144.9	1135.0
27.5°	1085.3	1098.9	1114.6	1108.3	1097.3
30°	1025.1	1044.9	1071.1	1065.9	1058.0
32.5°	968.0	987.9	1024.0	1021.9	1017.7
35°	916.2	928.7	971.1	976.4	972.7
37.5°	867.0	878.5	918.3	930.3	927.2
40°	815.1	827.7	859.1	880.6	881.6
42.5°	763.8	775.9	801.5	832.4	832.4
45°	709.4	721.4	745.0	779.0	783.2
47.5°	656.0	668.5	691.6	725.6	732.4
50°	603.6	615.1	638.2	671.2	681.6
52.5°	549.2	561.7	584.2	614.6	629.8
55°	496.8	505.2	529.8	559.1	575.3
57.5°	442.4	450.2	478.0	503.1	519.9
60°	390.0	400.0	421.4	447.1	466.5
62.5°	339.8	350.2	368.6	391.1	413.1
65°	291.1	298.9	316.7	339.2	358.6
67.5°	244.0	250.8	268.6	284.3	304.7
70°	196.3	205.2	218.3	233.5	246.6
72.5°	158.1	161.8	172.8	183.8	197.4
75°	116.7	123.0	131.9	138.2	146.1
77.5°	83.8	87.4	92.7	97.9	105.2
80°	56.0	57.6	62.3	63.3	69.1
82.5°	34.0	35.1	36.1	36.6	38.7
85°	18.3	18.3	18.3	17.3	17.3
87.5°	10.5	10.5	8.9	7.3	5.2
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)