

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: P555793

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-84-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: P555793
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-LD4-3LO-40-UNV-82-84-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC 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

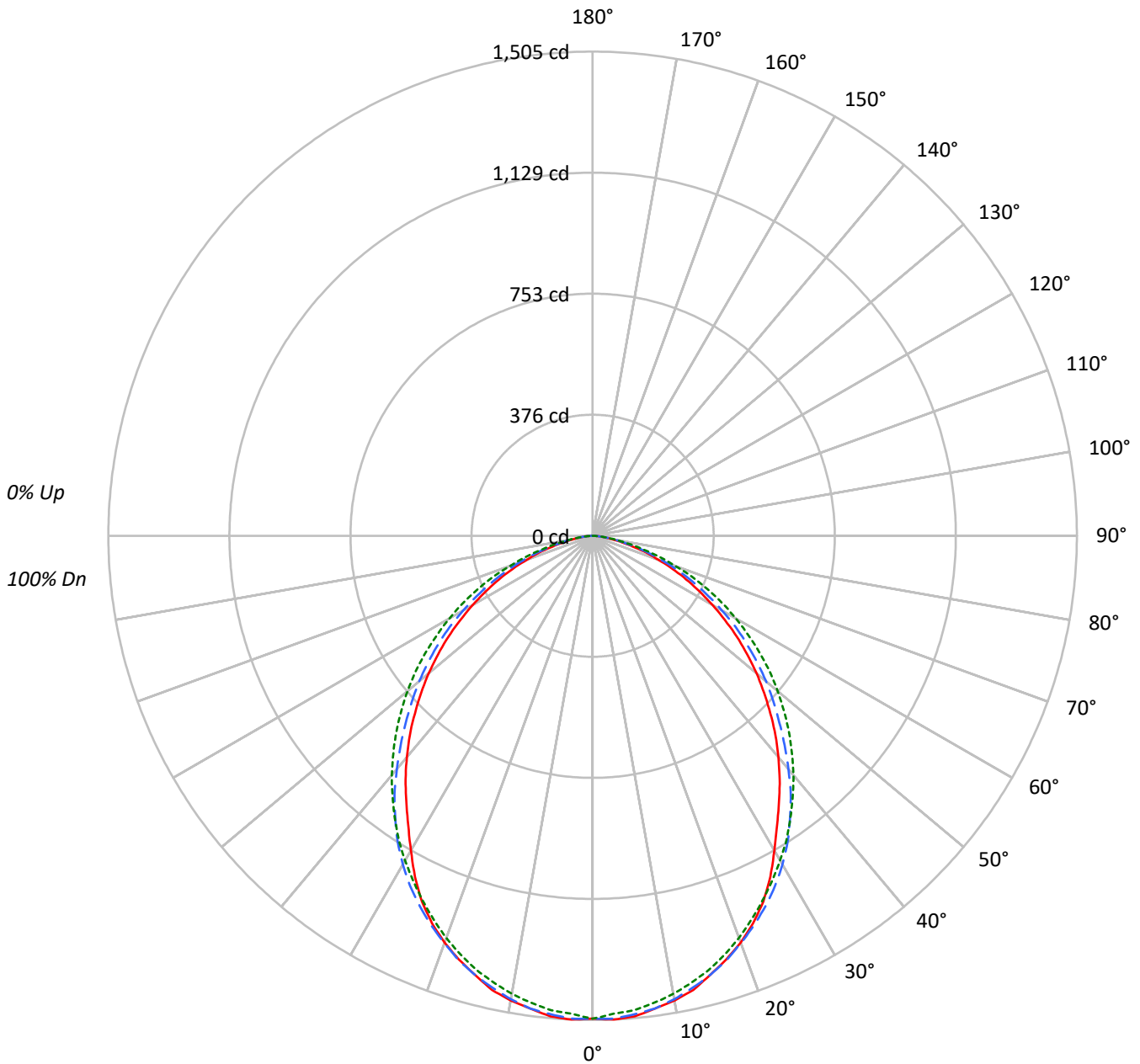
Lumens per Lamp: N/A
Luminaire Lumens: 3471.0 lumens
Efficiency: N/A
Efficacy: 98.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
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°	8079	8079	8079
5°	8101	8066	7998
10°	8014	7993	7901
15°	7872	7872	7782
20°	7706	7715	7616
25°	7452	7544	7425
30°	7017	7333	7243
35°	6631	7029	7040
40°	6308	6648	6823
45°	5947	6246	6566
50°	5567	5886	6286
55°	5135	5476	5947
60°	4624	4997	5530
65°	4083	4443	5030
70°	3404	3784	4274
75°	2674	3021	3346
80°	1912	2126	2359
85°	1247	1247	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	4.1
10°-20°	397.0	11.4
20°-30°	580.2	16.7
30°-40°	658.6	19.0
40°-50°	635.8	18.3
50°-60°	524.5	15.1
60°-70°	349.3	10.1
70°-80°	156.3	4.5
80°-90°	28.0	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°	1118.6	32.2
0°-40°	1777.2	51.2
0°-60°	2937.5	84.6
0°-90°	3471.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3471.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1499	1499	1493	1485	1480	142
15°	1413	1416	1413	1406	1397	398
25°	1255	1265	1270	1261	1250	575
35°	1009	1023	1070	1076	1072	632
45°	781	795	821	858	863	603
55°	547	556	584	616	634	488
65°	321	329	349	374	395	318
75°	129	136	145	152	161	141
85°	20	20	20	19	19	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1501.1	1501.1	1501.1	1501.1	1501.1
2.5°	1505.2	1505.7	1502.3	1493.0	1487.3
5°	1499.4	1498.8	1493.0	1485.0	1480.4
7.5°	1482.7	1483.8	1482.1	1470.6	1464.2
10°	1466.5	1467.1	1462.5	1453.3	1445.8
12.5°	1445.8	1445.2	1438.8	1434.2	1422.1
15°	1412.9	1416.3	1412.9	1406.5	1396.7
17.5°	1381.2	1381.2	1383.5	1372.5	1365.0
20°	1345.4	1347.1	1347.1	1338.5	1329.8
22.5°	1303.9	1309.1	1310.8	1301.6	1291.2
25°	1254.9	1264.7	1270.4	1261.2	1250.3
27.5°	1195.5	1210.5	1227.8	1220.8	1208.7
30°	1129.2	1151.1	1179.9	1174.1	1165.5
32.5°	1066.3	1088.2	1128.0	1125.7	1121.1
35°	1009.2	1023.0	1069.8	1075.5	1071.5
37.5°	955.0	967.7	1011.5	1024.8	1021.3
40°	897.9	911.7	946.3	970.0	971.1
42.5°	841.4	854.7	882.9	916.9	916.9
45°	781.4	794.7	820.6	858.1	862.7
47.5°	722.6	736.4	761.8	799.3	806.8
50°	664.9	677.6	703.0	739.3	750.8
52.5°	604.9	618.8	643.6	677.0	693.8
55°	547.3	556.5	583.6	615.9	633.8
57.5°	487.3	496.0	526.5	554.2	572.7
60°	429.6	440.6	464.2	492.5	513.8
62.5°	374.3	385.8	406.0	430.8	455.0
65°	320.6	329.3	348.9	373.7	395.0
67.5°	268.7	276.2	295.8	313.1	335.6
70°	216.3	226.1	240.5	257.2	271.6
72.5°	174.2	178.2	190.3	202.4	217.4
75°	128.6	135.5	145.3	152.2	160.9
77.5°	92.3	96.3	102.1	107.8	115.9
80°	61.7	63.4	68.6	69.8	76.1
82.5°	37.5	38.6	39.8	40.4	42.7
85°	20.2	20.2	20.2	19.0	19.0
87.5°	11.5	11.5	9.8	8.1	5.8
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)