

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: P555859

Luminaire Tested: **FUSL-12-2-LD4-3LO-50-UNV-82-85-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: P555859
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-50-UNV-82-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

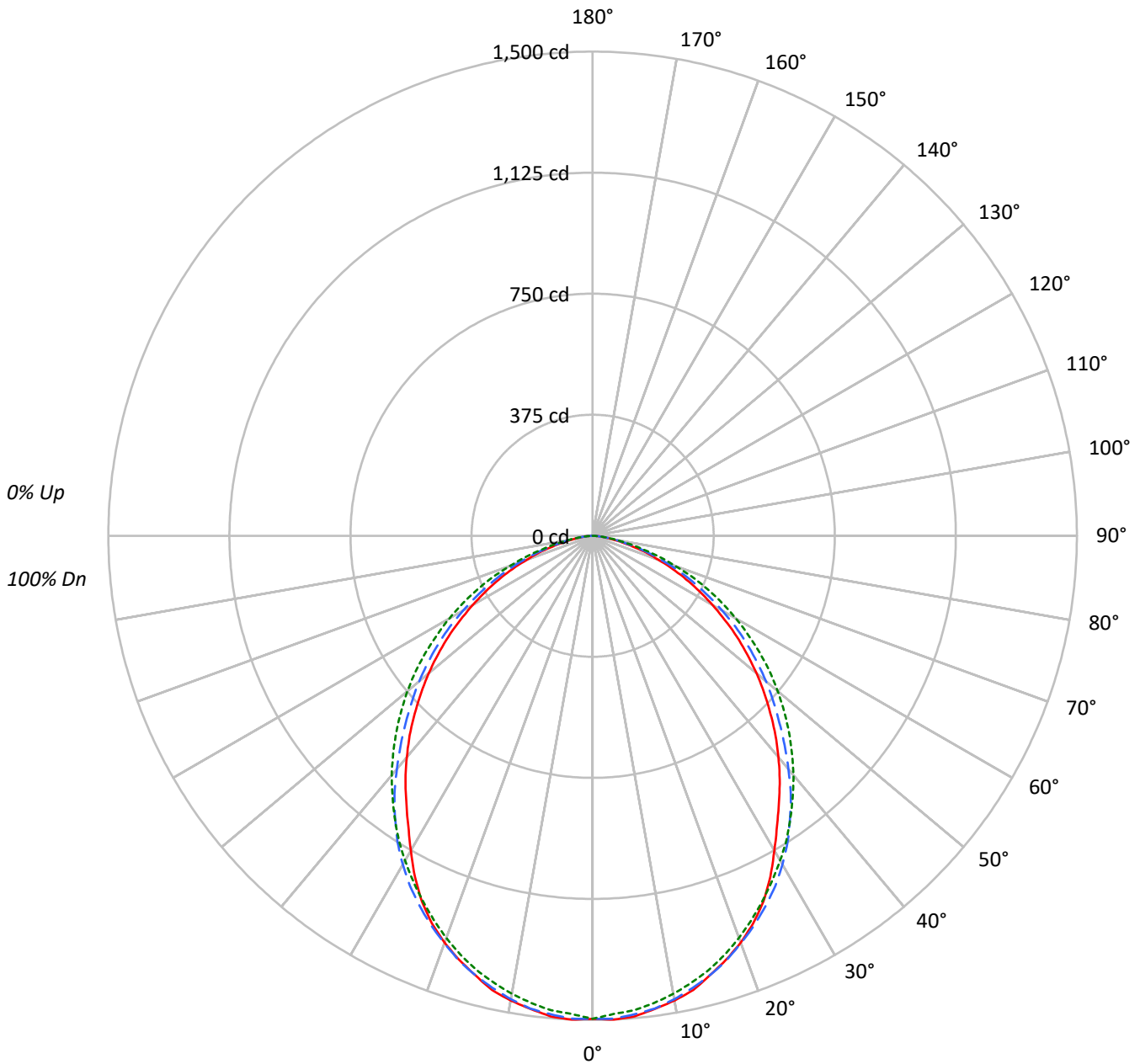
Lumens per Lamp: N/A
Luminaire Lumens: 3460.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 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°	8054	8054	8054
5°	8075	8041	7972
10°	7989	7967	7876
15°	7847	7847	7758
20°	7681	7691	7592
25°	7428	7520	7401
30°	6995	7310	7220
35°	6610	7006	7018
40°	6289	6627	6802
45°	5928	6226	6546
50°	5550	5868	6267
55°	5119	5459	5928
60°	4610	4982	5513
65°	4070	4429	5015
70°	3393	3772	4261
75°	2666	3013	3335
80°	1906	2120	2352
85°	1241	1241	1173



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.9	4.1
10°-20°	395.8	11.4
20°-30°	578.4	16.7
30°-40°	656.5	19.0
40°-50°	633.8	18.3
50°-60°	522.8	15.1
60°-70°	348.2	10.1
70°-80°	155.8	4.5
80°-90°	27.9	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°	1115.1	32.2
0°-40°	1771.6	51.2
0°-60°	2928.2	84.6
0°-90°	3460.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3460.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1496	1496	1496	1496	1496	
5°	1495	1494	1488	1480	1476	141
15°	1408	1412	1408	1402	1392	397
25°	1251	1261	1266	1257	1246	573
35°	1006	1020	1066	1072	1068	630
45°	779	792	818	855	860	601
55°	546	555	582	614	632	487
65°	320	328	348	372	394	317
75°	128	135	145	152	160	140
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°	1496.4	1496.4	1496.4	1496.4	1496.4
2.5°	1500.4	1501.0	1497.5	1488.3	1482.6
5°	1494.6	1494.1	1488.3	1480.3	1475.7
7.5°	1478.0	1479.1	1477.4	1465.9	1459.6
10°	1461.9	1462.4	1457.8	1448.6	1441.2
12.5°	1441.2	1440.6	1434.3	1429.7	1417.6
15°	1408.4	1411.9	1408.4	1402.1	1392.3
17.5°	1376.8	1376.8	1379.1	1368.2	1360.7
20°	1341.1	1342.9	1342.9	1334.3	1325.6
22.5°	1299.8	1304.9	1306.7	1297.5	1287.1
25°	1250.9	1260.7	1266.4	1257.2	1246.3
27.5°	1191.7	1206.6	1223.9	1217.0	1204.9
30°	1125.6	1147.4	1176.2	1170.4	1161.8
32.5°	1062.9	1084.8	1124.4	1122.1	1117.5
35°	1006.0	1019.8	1066.4	1072.1	1068.1
37.5°	952.0	964.6	1008.3	1021.5	1018.1
40°	895.1	908.9	943.3	966.9	968.1
42.5°	838.7	851.9	880.1	914.0	914.0
45°	778.9	792.2	818.0	855.4	860.0
47.5°	720.3	734.1	759.4	796.8	804.2
50°	662.8	675.5	700.8	737.0	748.5
52.5°	603.0	616.8	641.5	674.9	691.6
55°	545.5	554.7	581.8	614.0	631.8
57.5°	485.8	494.4	524.8	552.4	570.8
60°	428.3	439.2	462.8	490.9	512.2
62.5°	373.1	384.6	404.7	429.4	453.6
65°	319.6	328.2	347.8	372.5	393.8
67.5°	267.9	275.4	294.9	312.1	334.6
70°	215.6	225.3	239.7	256.4	270.8
72.5°	173.6	177.6	189.7	201.8	216.7
75°	128.2	135.1	144.9	151.8	160.4
77.5°	92.0	96.0	101.8	107.5	115.5
80°	61.5	63.2	68.4	69.6	75.9
82.5°	37.4	38.5	39.7	40.2	42.5
85°	20.1	20.1	20.1	19.0	19.0
87.5°	11.5	11.5	9.8	8.0	5.7
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)