

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: P554627

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-UNV-81-85-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: P554627
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-LD4-2HI-30-UNV-81-85-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .187 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

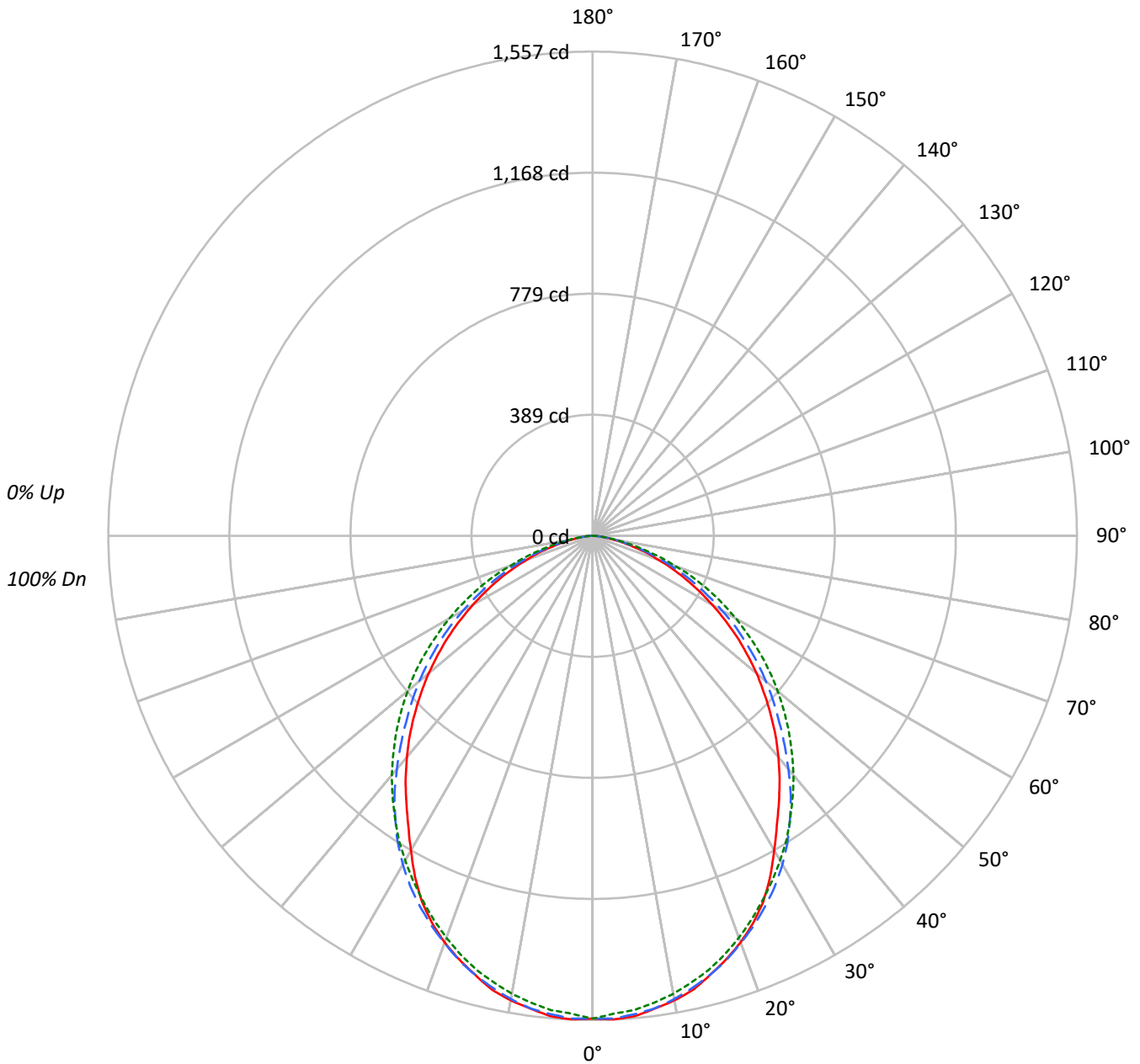
Lumens per Lamp: N/A
Luminaire Lumens: 3590.0 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
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°	8356	8356	8356
5°	8378	8343	8272
10°	8289	8266	8172
15°	8142	8142	8049
20°	7970	7980	7877
25°	7707	7803	7679
30°	7258	7584	7491
35°	6858	7269	7281
40°	6525	6877	7057
45°	6151	6460	6792
50°	5758	6088	6502
55°	5311	5664	6151
60°	4783	5168	5720
65°	4223	4596	5203
70°	3520	3913	4420
75°	2766	3125	3460
80°	1977	2201	2439
85°	1291	1291	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.2	4.1
10°-20°	410.7	11.4
20°-30°	600.1	16.7
30°-40°	681.2	19.0
40°-50°	657.6	18.3
50°-60°	542.5	15.1
60°-70°	361.2	10.1
70°-80°	161.6	4.5
80°-90°	28.9	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°	1157.0	32.2
0°-40°	1838.2	51.2
0°-60°	3038.2	84.6
0°-90°	3590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3590.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1553	1553	1553	1553	1553	
5°	1551	1550	1544	1536	1531	147
15°	1461	1465	1461	1455	1445	412
25°	1298	1308	1314	1304	1293	594
35°	1044	1058	1106	1112	1108	654
45°	808	822	849	888	892	624
55°	566	576	604	637	656	505
65°	332	341	361	386	409	329
75°	133	140	150	158	166	145
85°	21	21	21	20	20	28
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.6	1552.6	1552.6	1552.6	1552.6
2.5°	1556.8	1557.4	1553.8	1544.2	1538.3
5°	1550.8	1550.2	1544.2	1535.9	1531.1
7.5°	1533.5	1534.7	1532.9	1521.0	1514.4
10°	1516.8	1517.4	1512.6	1503.1	1495.3
12.5°	1495.3	1494.7	1488.2	1483.4	1470.9
15°	1461.3	1464.9	1461.3	1454.8	1444.6
17.5°	1428.5	1428.5	1430.9	1419.6	1411.8
20°	1391.5	1393.3	1393.3	1384.4	1375.4
22.5°	1348.6	1354.0	1355.8	1346.2	1335.5
25°	1297.9	1308.0	1314.0	1304.5	1293.1
27.5°	1236.5	1252.0	1269.9	1262.7	1250.2
30°	1167.9	1190.5	1220.4	1214.4	1205.4
32.5°	1102.9	1125.5	1166.7	1164.3	1159.5
35°	1043.8	1058.1	1106.4	1112.4	1108.2
37.5°	987.7	1000.9	1046.2	1059.9	1056.3
40°	928.7	943.0	978.8	1003.2	1004.4
42.5°	870.2	884.0	913.2	948.4	948.4
45°	808.2	821.9	848.8	887.5	892.3
47.5°	747.4	761.7	787.9	826.7	834.4
50°	687.7	700.8	727.1	764.7	776.6
52.5°	625.7	640.0	665.6	700.2	717.5
55°	566.0	575.6	603.6	637.0	655.5
57.5°	504.0	513.0	544.6	573.2	592.3
60°	444.4	455.7	480.1	509.4	531.4
62.5°	387.1	399.0	419.9	445.6	470.6
65°	331.6	340.6	360.9	386.5	408.6
67.5°	277.9	285.7	306.0	323.9	347.1
70°	223.7	233.8	248.7	266.0	280.9
72.5°	180.1	184.3	196.8	209.4	224.9
75°	133.0	140.2	150.3	157.5	166.4
77.5°	95.4	99.6	105.6	111.5	119.9
80°	63.8	65.6	71.0	72.2	78.7
82.5°	38.8	40.0	41.2	41.8	44.1
85°	20.9	20.9	20.9	19.7	19.7
87.5°	11.9	11.9	10.1	8.4	6.0
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)