

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: P554641

Luminaire Tested: **FUSL-12-2-LD4-2HI-30-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: P554641
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-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 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

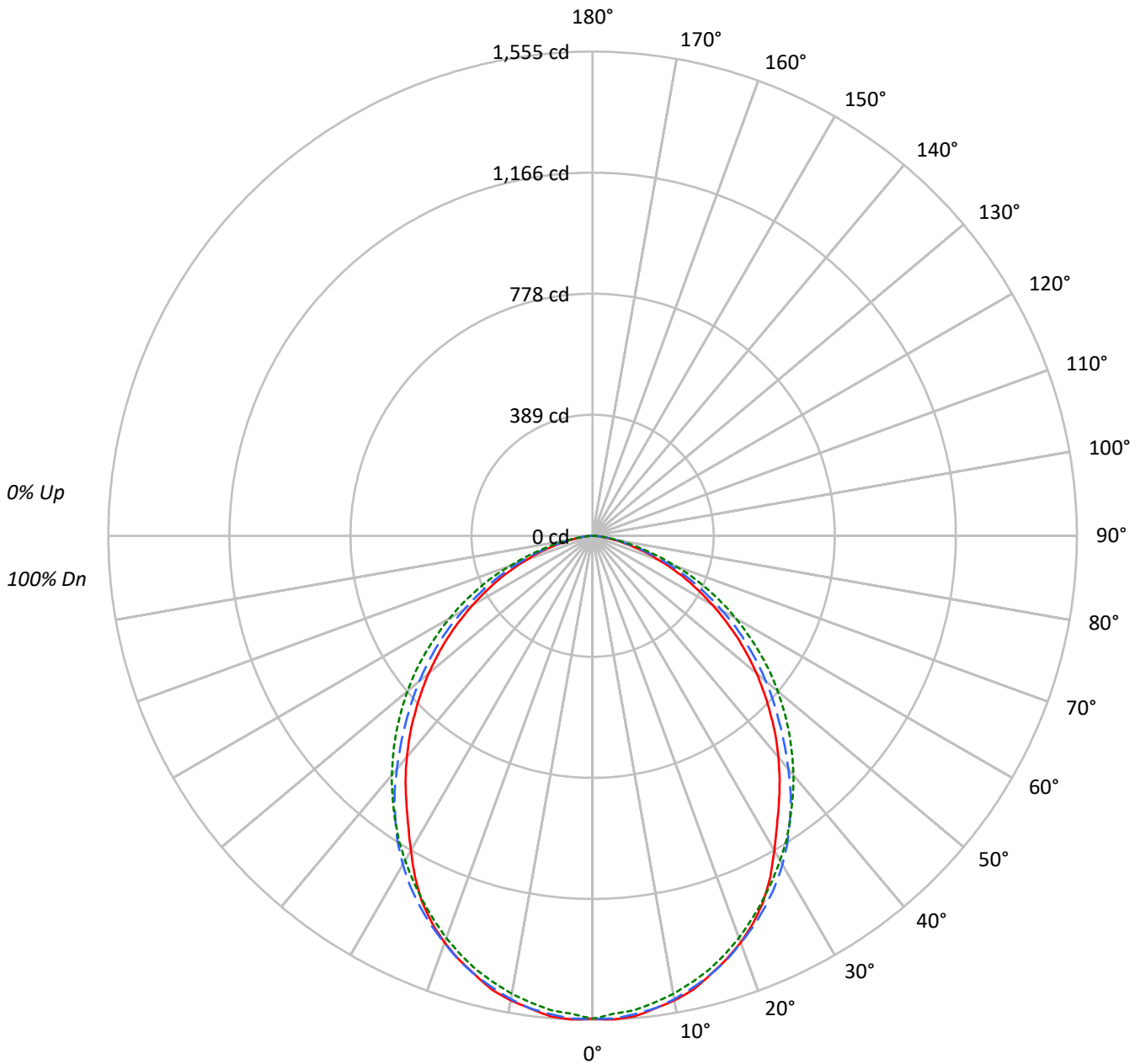
Lumens per Lamp: N/A
Luminaire Lumens: 3586.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8347	8347	8347
5°	8369	8333	8263
10°	8280	8257	8163
15°	8133	8133	8040
20°	7961	7971	7869
25°	7698	7794	7671
30°	7250	7576	7483
35°	6850	7261	7273
40°	6518	6869	7049
45°	6145	6453	6784
50°	5752	6081	6495
55°	5305	5657	6144
60°	4778	5162	5715
65°	4219	4591	5197
70°	3515	3909	4415
75°	2764	3121	3456
80°	1974	2197	2436
85°	1291	1291	1216



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.0	4.1
10°-20°	410.2	11.4
20°-30°	599.4	16.7
30°-40°	680.4	19.0
40°-50°	656.9	18.3
50°-60°	541.9	15.1
60°-70°	360.8	10.1
70°-80°	161.5	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°	1155.7	32.2
0°-40°	1836.1	51.2
0°-60°	3034.8	84.6
0°-90°	3586.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3586.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1551	1551	1551	1551	1551	
5°	1549	1548	1542	1534	1529	147
15°	1460	1463	1460	1453	1443	412
25°	1296	1307	1312	1303	1292	594
35°	1043	1057	1105	1111	1107	653
45°	807	821	848	886	891	623
55°	565	575	603	636	655	505
65°	331	340	360	386	408	328
75°	133	140	150	157	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°	1550.9	1550.9	1550.9	1550.9	1550.9
2.5°	1555.0	1555.6	1552.0	1542.5	1536.6
5°	1549.1	1548.5	1542.5	1534.2	1529.4
7.5°	1531.8	1533.0	1531.2	1519.3	1512.7
10°	1515.1	1515.7	1510.9	1501.4	1493.7
12.5°	1493.7	1493.1	1486.5	1481.7	1469.2
15°	1459.7	1463.3	1459.7	1453.1	1443.0
17.5°	1426.9	1426.9	1429.3	1418.0	1410.2
20°	1390.0	1391.8	1391.8	1382.8	1373.9
22.5°	1347.1	1352.5	1354.2	1344.7	1334.0
25°	1296.4	1306.6	1312.5	1303.0	1291.7
27.5°	1235.1	1250.6	1268.4	1261.3	1248.8
30°	1166.6	1189.2	1219.0	1213.0	1204.1
32.5°	1101.6	1124.3	1165.4	1163.0	1158.2
35°	1042.6	1056.9	1105.2	1111.2	1107.0
37.5°	986.6	999.7	1045.0	1058.7	1055.2
40°	927.7	942.0	977.7	1002.1	1003.3
42.5°	869.3	883.0	912.2	947.3	947.3
45°	807.3	821.0	847.8	886.5	891.3
47.5°	746.5	760.8	787.0	825.8	833.5
50°	687.0	700.1	726.3	763.8	775.7
52.5°	625.0	639.3	664.9	699.5	716.7
55°	565.4	574.9	602.9	636.3	654.8
57.5°	503.4	512.4	544.0	572.6	591.6
60°	443.9	455.2	479.6	508.8	530.9
62.5°	386.7	398.6	419.4	445.1	470.1
65°	331.3	340.2	360.5	386.1	408.1
67.5°	277.6	285.4	305.6	323.5	346.8
70°	223.4	233.6	248.4	265.7	280.6
72.5°	179.9	184.1	196.6	209.1	224.6
75°	132.9	140.0	150.1	157.3	166.2
77.5°	95.3	99.5	105.5	111.4	119.8
80°	63.7	65.5	70.9	72.1	78.6
82.5°	38.7	39.9	41.1	41.7	44.1
85°	20.9	20.9	20.9	19.7	19.7
87.5°	11.9	11.9	10.1	8.3	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)