

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: P554773

Luminaire Tested: **FUSL-12-2-LD4-2HI-40-UNV-82-86-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: P554773
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-40-UNV-82-86-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

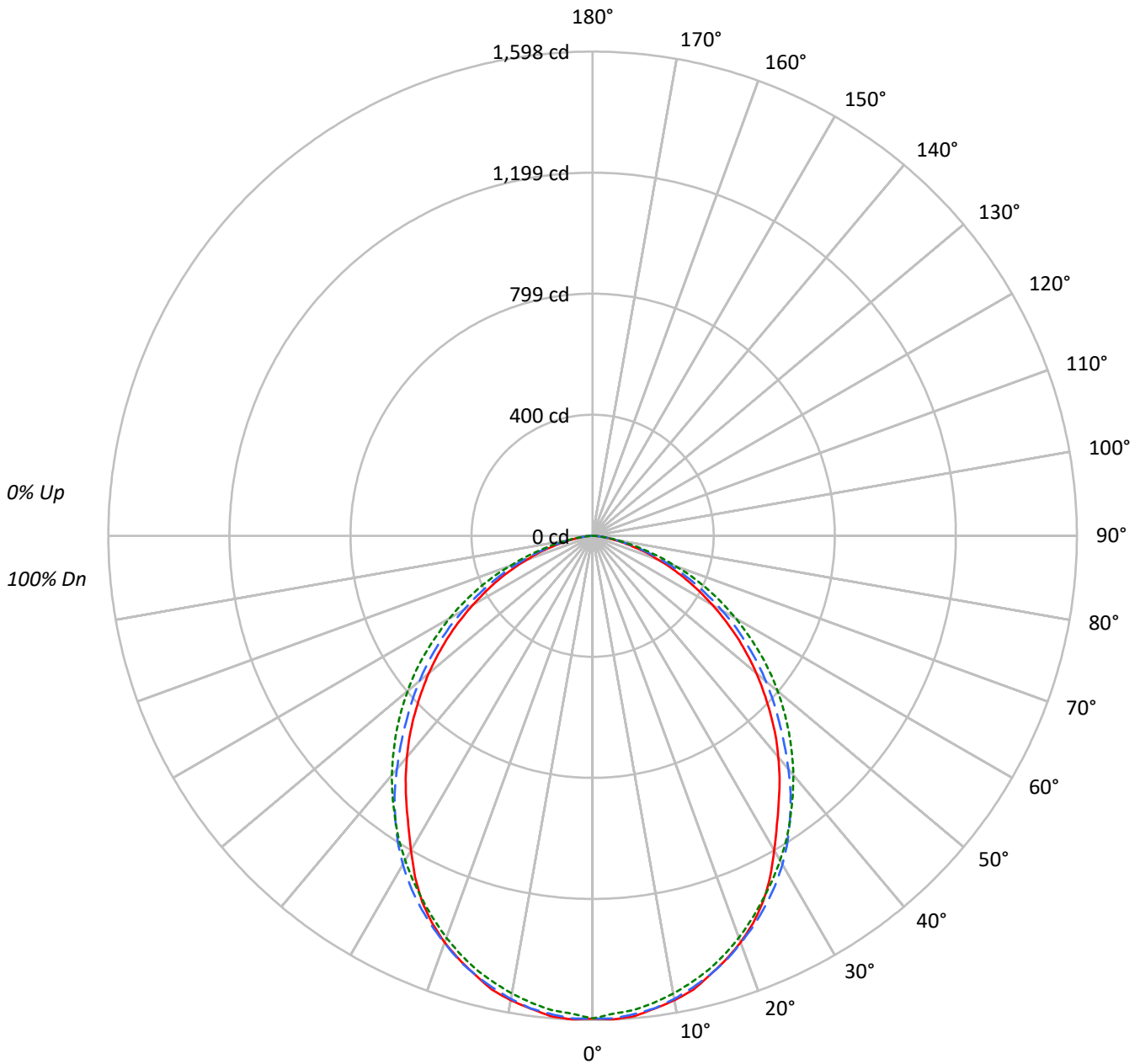
Lumens per Lamp: N/A
Luminaire Lumens: 3684.0 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

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°	8575	8575	8575
5°	8598	8561	8488
10°	8506	8483	8386
15°	8355	8355	8260
20°	8179	8189	8084
25°	7909	8007	7880
30°	7448	7782	7687
35°	7037	7460	7472
40°	6695	7057	7241
45°	6313	6629	6970
50°	5909	6247	6672
55°	5451	5812	6312
60°	4908	5303	5871
65°	4334	4716	5340
70°	3611	4016	4537
75°	2838	3206	3552
80°	2030	2256	2504
85°	1321	1321	1247



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	4.1
10°-20°	421.4	11.4
20°-30°	615.8	16.7
30°-40°	699.0	19.0
40°-50°	674.8	18.3
50°-60°	556.7	15.1
60°-70°	370.7	10.1
70°-80°	165.9	4.5
80°-90°	29.7	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°	1187.2	32.2
0°-40°	1886.3	51.2
0°-60°	3117.7	84.6
0°-90°	3684.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3684.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1591	1591	1585	1576	1571	151
15°	1500	1503	1500	1493	1482	423
25°	1332	1342	1348	1339	1327	610
35°	1071	1086	1135	1142	1137	671
45°	829	843	871	911	916	640
55°	581	591	619	654	673	518
65°	340	350	370	397	419	337
75°	136	144	154	162	171	149
85°	21	21	21	20	20	29
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1593.2	1593.2	1593.2	1593.2	1593.2
2.5°	1597.5	1598.1	1594.5	1584.7	1578.5
5°	1591.4	1590.8	1584.7	1576.1	1571.2
7.5°	1573.6	1574.9	1573.0	1560.8	1554.1
10°	1556.5	1557.1	1552.2	1542.4	1534.5
12.5°	1534.5	1533.9	1527.1	1522.2	1509.4
15°	1499.6	1503.3	1499.6	1492.9	1482.4
17.5°	1465.9	1465.9	1468.4	1456.7	1448.8
20°	1428.0	1429.8	1429.8	1420.6	1411.4
22.5°	1383.9	1389.4	1391.2	1381.5	1370.4
25°	1331.9	1342.3	1348.4	1338.6	1327.0
27.5°	1268.8	1284.7	1303.1	1295.8	1282.9
30°	1198.4	1221.7	1252.3	1246.2	1237.0
32.5°	1131.7	1155.0	1197.2	1194.8	1189.9
35°	1071.1	1085.8	1135.4	1141.5	1137.2
37.5°	1013.6	1027.1	1073.6	1087.7	1084.0
40°	953.0	967.7	1004.4	1029.5	1030.7
42.5°	893.0	907.1	937.1	973.2	973.2
45°	829.4	843.4	871.0	910.8	915.7
47.5°	766.9	781.6	808.6	848.3	856.3
50°	705.7	719.2	746.1	784.7	796.9
52.5°	642.1	656.8	683.1	718.6	736.3
55°	580.9	590.7	619.4	653.7	672.7
57.5°	517.2	526.4	558.8	588.2	607.8
60°	456.0	467.6	492.7	522.7	545.4
62.5°	397.2	409.5	430.9	457.2	482.9
65°	340.3	349.5	370.3	396.6	419.3
67.5°	285.2	293.2	314.0	332.4	356.2
70°	229.5	239.9	255.2	273.0	288.3
72.5°	184.8	189.1	202.0	214.8	230.8
75°	136.5	143.8	154.2	161.6	170.8
77.5°	97.9	102.2	108.3	114.5	123.0
80°	65.5	67.3	72.8	74.1	80.8
82.5°	39.8	41.0	42.2	42.8	45.3
85°	21.4	21.4	21.4	20.2	20.2
87.5°	12.2	12.2	10.4	8.6	6.1
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)