

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: P555924

Luminaire Tested: **FUSL-12-2-LD4-3STD-30-UNV-82-86-EDD-90**

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: P555924
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-LD4-3STD-30-UNV-82-86-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

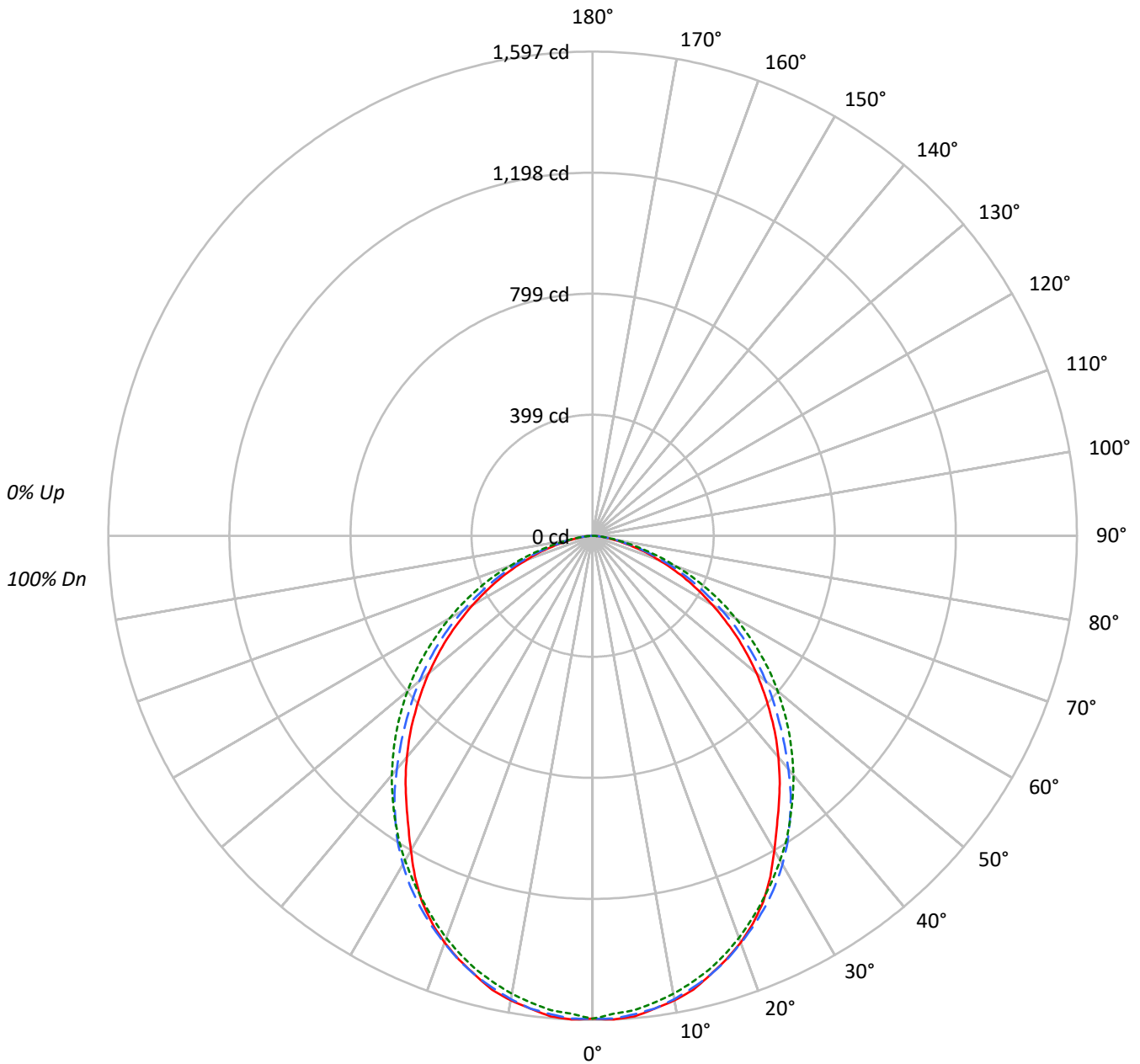
Lumens per Lamp: N/A
Luminaire Lumens: 3683.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 50
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°	8572	8572	8572
5°	8595	8559	8486
10°	8504	8481	8384
15°	8353	8353	8257
20°	8176	8187	8082
25°	7907	8005	7878
30°	7446	7781	7686
35°	7035	7458	7470
40°	6693	7054	7240
45°	6310	6627	6967
50°	5907	6245	6671
55°	5449	5811	6310
60°	4907	5302	5868
65°	4332	4714	5338
70°	3611	4016	4535
75°	2838	3206	3550
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°	421.3	11.4
20°-30°	615.7	16.7
30°-40°	698.8	19.0
40°-50°	674.6	18.3
50°-60°	556.5	15.1
60°-70°	370.6	10.1
70°-80°	165.8	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°	1186.9	32.2
0°-40°	1885.8	51.2
0°-60°	3116.9	84.6
0°-90°	3683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3683.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1593	1593	1593	1593	1593	
5°	1591	1590	1584	1576	1571	151
15°	1499	1503	1499	1492	1482	423
25°	1332	1342	1348	1338	1327	610
35°	1071	1086	1135	1141	1137	671
45°	829	843	871	910	915	640
55°	581	590	619	654	672	518
65°	340	349	370	396	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°	1592.8	1592.8	1592.8	1592.8	1592.8
2.5°	1597.1	1597.7	1594.0	1584.2	1578.1
5°	1591.0	1590.4	1584.2	1575.7	1570.8
7.5°	1573.2	1574.4	1572.6	1560.4	1553.6
10°	1556.1	1556.7	1551.8	1542.0	1534.1
12.5°	1534.1	1533.4	1526.7	1521.8	1509.0
15°	1499.2	1502.9	1499.2	1492.4	1482.0
17.5°	1465.5	1465.5	1468.0	1456.3	1448.4
20°	1427.6	1429.4	1429.4	1420.2	1411.1
22.5°	1383.5	1389.0	1390.9	1381.1	1370.1
25°	1331.5	1341.9	1348.0	1338.2	1326.6
27.5°	1268.5	1284.4	1302.8	1295.4	1282.6
30°	1198.1	1221.4	1252.0	1245.8	1236.7
32.5°	1131.4	1154.7	1196.9	1194.4	1189.6
35°	1070.8	1085.5	1135.1	1141.2	1136.9
37.5°	1013.3	1026.8	1073.3	1087.4	1083.7
40°	952.7	967.4	1004.1	1029.2	1030.5
42.5°	892.8	906.9	936.8	972.9	972.9
45°	829.1	843.2	870.7	910.5	915.4
47.5°	766.7	781.4	808.3	848.1	856.1
50°	705.5	719.0	745.9	784.5	796.7
52.5°	641.9	656.6	682.9	718.4	736.1
55°	580.7	590.5	619.3	653.5	672.5
57.5°	517.1	526.2	558.7	588.0	607.6
60°	455.9	467.5	492.6	522.6	545.2
62.5°	397.1	409.4	430.8	457.1	482.8
65°	340.2	349.4	370.2	396.5	419.2
67.5°	285.2	293.1	313.9	332.3	356.1
70°	229.5	239.9	255.2	272.9	288.2
72.5°	184.8	189.1	201.9	214.8	230.7
75°	136.5	143.8	154.2	161.5	170.7
77.5°	97.9	102.2	108.3	114.4	123.0
80°	65.5	67.3	72.8	74.0	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)