

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: P555804

Luminaire Tested: **FUSL-12-2-LD4-3LO-40-UNV-82-96-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: P555804
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-40-UNV-82-96-EDD-90
Description: 2FT FUSL SURFACE MOUNT WITH .187 CLEAR PC FIXTURE SIDE AND .250 CLEAR TEMPERED GLASS ENVIRONMENTAL SIDE LENSES WITH, 90 CRI AND 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

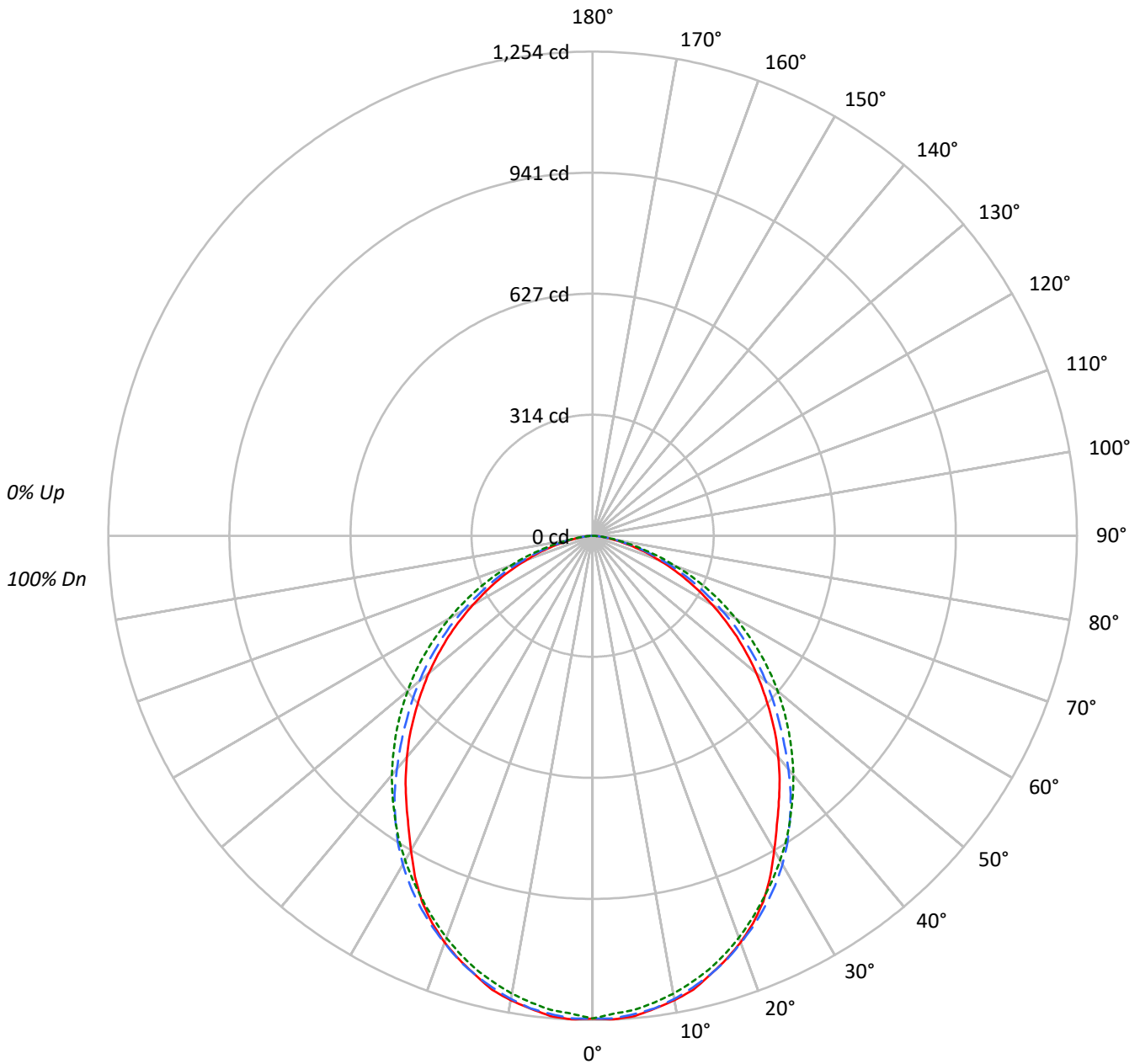
Lumens per Lamp: N/A
Luminaire Lumens: 2891.0 lumens
Efficiency: N/A
Efficacy: 82.4 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 35.1
Input Voltage (V): NR
Input Current (A_{in}): 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°	6729	6729	6729
5°	6747	6719	6661
10°	6675	6657	6581
15°	6557	6557	6482
20°	6418	6426	6344
25°	6207	6284	6184
30°	5845	6107	6032
35°	5523	5854	5863
40°	5254	5538	5683
45°	4953	5202	5469
50°	4637	4902	5236
55°	4277	4561	4953
60°	3851	4162	4607
65°	3401	3701	4190
70°	2834	3152	3559
75°	2227	2516	2786
80°	1593	1773	1965
85°	1037	1037	982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	4.1
10°-20°	330.7	11.4
20°-30°	483.3	16.7
30°-40°	548.6	19.0
40°-50°	529.5	18.3
50°-60°	436.8	15.1
60°-70°	290.9	10.1
70°-80°	130.2	4.5
80°-90°	23.3	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°	931.7	32.2
0°-40°	1480.2	51.2
0°-60°	2446.6	84.6
0°-90°	2891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1250	1250	1250	1250	1250	
5°	1249	1248	1244	1237	1233	118
15°	1177	1180	1177	1172	1163	332
25°	1045	1053	1058	1050	1041	479
35°	841	852	891	896	892	527
45°	651	662	684	715	719	502
55°	456	464	486	513	528	407
65°	267	274	291	311	329	265
75°	107	113	121	127	134	117
85°	17	17	17	16	16	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1250.3	1250.3	1250.3	1250.3	1250.3
2.5°	1253.6	1254.1	1251.2	1243.6	1238.8
5°	1248.8	1248.4	1243.6	1236.8	1233.0
7.5°	1234.9	1235.9	1234.4	1224.8	1219.5
10°	1221.5	1221.9	1218.1	1210.4	1204.2
12.5°	1204.2	1203.7	1198.4	1194.6	1184.5
15°	1176.8	1179.7	1176.8	1171.5	1163.3
17.5°	1150.4	1150.4	1152.3	1143.2	1136.9
20°	1120.6	1122.0	1122.0	1114.8	1107.6
22.5°	1086.0	1090.3	1091.8	1084.1	1075.4
25°	1045.2	1053.4	1058.2	1050.5	1041.3
27.5°	995.7	1008.2	1022.6	1016.8	1006.8
30°	940.5	958.7	982.7	977.9	970.7
32.5°	888.1	906.4	939.5	937.6	933.7
35°	840.6	852.1	891.0	895.8	892.4
37.5°	795.4	806.0	842.5	853.5	850.7
40°	747.9	759.4	788.2	807.9	808.9
42.5°	700.8	711.8	735.4	763.7	763.7
45°	650.8	661.9	683.5	714.7	718.6
47.5°	601.8	613.4	634.5	665.7	672.0
50°	553.8	564.4	585.5	615.8	625.4
52.5°	503.9	515.4	536.0	563.9	577.8
55°	455.8	463.5	486.1	513.0	527.9
57.5°	405.9	413.1	438.5	461.6	477.0
60°	357.8	367.0	386.7	410.2	428.0
62.5°	311.7	321.3	338.1	358.8	379.0
65°	267.1	274.3	290.6	311.2	329.0
67.5°	223.8	230.1	246.4	260.8	279.5
70°	180.1	188.3	200.3	214.2	226.2
72.5°	145.1	148.4	158.5	168.6	181.1
75°	107.1	112.9	121.0	126.8	134.0
77.5°	76.9	80.2	85.0	89.8	96.5
80°	51.4	52.8	57.2	58.1	63.4
82.5°	31.2	32.2	33.1	33.6	35.5
85°	16.8	16.8	16.8	15.9	15.9
87.5°	9.6	9.6	8.2	6.7	4.8
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)