

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: P307985

Luminaire Tested: **14FCZ2-39-UNV-L82765-S-CA125-W2A-U-5500K**

Issue Date: 3/3/2020

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: P307985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-39-UNV-L82765-S-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 5500K TUNABLE CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER
Luminaire Equipment:

<u>Sample No.</u>	<u>Condition</u>	<u>Description</u>
AS-5443-1	Good	WHITE TWIN R-EVOLVE FLOOD
AS-5443-2	Good	REFLECTOR
AS-5443-3	Good	DRIVER
AS-5443-4	Good	UPPER MODULE
AS-5443-5	Good	LENS
AS-5443-6	Good	DRIVER 2
AS-5443-7	Good	TRIM RING

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3892.0 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

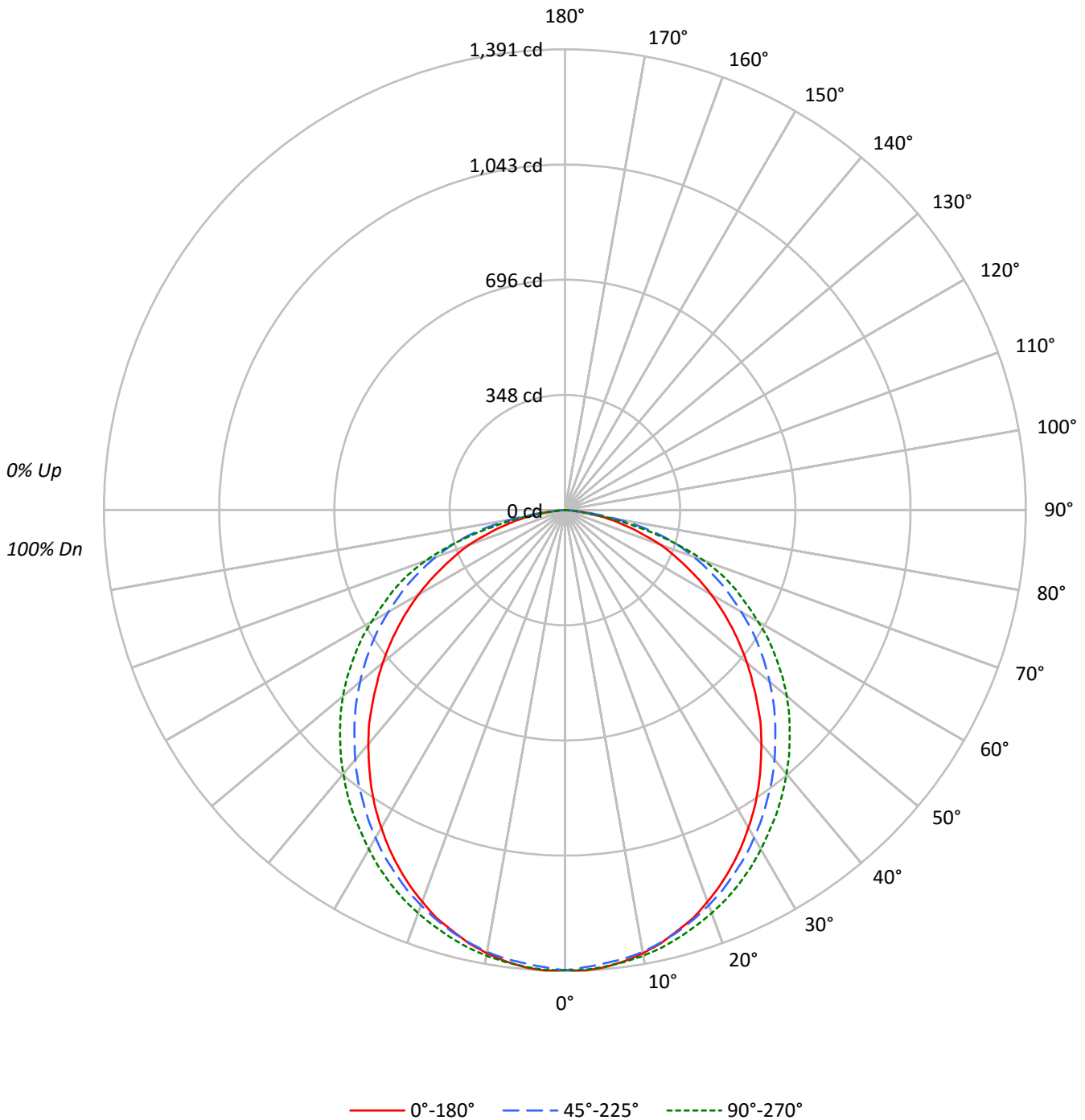
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3739	3739	3739
5°	3743	3711	3737
10°	3712	3701	3733
15°	3661	3672	3720
20°	3603	3636	3708
25°	3529	3592	3696
30°	3442	3550	3676
35°	3347	3499	3664
40°	3240	3457	3654
45°	3121	3415	3650
50°	3005	3377	3660
55°	2879	3350	3649
60°	2742	3302	3625
65°	2580	3293	3625
70°	2430	3264	3522
75°	2106	3190	3010
80°	1705	2572	2004
85°	1133	892	596



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.2	3.4
10°-20°	373.3	9.6
20°-30°	560.0	14.4
30°-40°	668.0	17.2
40°-50°	690.6	17.7
50°-60°	630.5	16.2
60°-70°	496.2	12.7
70°-80°	288.8	7.4
80°-90°	53.2	1.4
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°	1064.5	27.4
0°-40°	1732.6	44.5
0°-60°	3053.7	78.5
0°-90°	3892.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1389	1389	1389	1389	1389	
5°	1386	1382	1374	1386	1384	131
15°	1314	1316	1318	1335	1335	371
25°	1189	1194	1210	1239	1245	547
35°	1019	1032	1065	1106	1115	637
45°	820	847	897	948	959	633
55°	614	646	714	766	778	549
65°	405	448	517	558	569	402
75°	203	251	307	301	290	215
85°	37	52	29	23	19	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1389.4	1389.4	1389.4	1389.4	1389.4
2.5°	1391.3	1387.4	1381.7	1391.3	1389.4
5°	1385.5	1381.7	1373.9	1385.5	1383.6
7.5°	1373.9	1370.1	1366.2	1377.8	1375.9
10°	1358.5	1356.6	1354.6	1368.2	1366.2
12.5°	1339.2	1339.2	1337.3	1352.7	1352.7
15°	1314.1	1316.1	1318.0	1335.3	1335.3
17.5°	1291.0	1289.0	1294.8	1314.1	1316.1
20°	1258.2	1262.0	1269.7	1292.9	1294.8
22.5°	1225.4	1229.2	1242.7	1265.9	1271.7
25°	1188.7	1194.5	1209.9	1238.9	1244.7
27.5°	1150.1	1157.8	1179.0	1209.9	1215.7
30°	1107.6	1119.2	1142.4	1177.1	1182.9
32.5°	1065.2	1076.8	1105.7	1140.4	1148.2
35°	1018.9	1032.4	1065.2	1105.7	1115.4
37.5°	970.6	988.0	1026.6	1067.1	1078.7
40°	922.4	941.7	984.1	1026.6	1040.1
42.5°	874.2	893.4	939.8	988.0	1001.5
45°	820.1	847.1	897.3	947.5	959.1
47.5°	768.0	797.0	852.9	903.1	918.5
50°	717.8	746.8	806.6	858.7	874.2
52.5°	665.7	696.6	760.3	814.3	827.8
55°	613.6	646.4	714.0	766.1	777.7
57.5°	561.5	596.3	665.7	715.9	729.4
60°	509.4	546.1	613.6	663.8	673.5
62.5°	457.3	495.9	565.4	609.8	619.4
65°	405.2	447.7	517.2	557.7	569.3
67.5°	355.1	397.5	465.1	503.7	513.3
70°	308.8	347.3	414.9	443.8	447.7
72.5°	250.9	299.1	364.7	380.1	370.5
75°	202.6	250.9	306.8	301.0	289.5
77.5°	154.4	202.6	239.3	220.0	204.5
80°	110.0	158.2	166.0	137.0	129.3
82.5°	71.4	110.0	92.6	71.4	57.9
85°	36.7	52.1	28.9	23.2	19.3
87.5°	11.6	7.7	3.9	3.9	1.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)