

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: P307768

Luminaire Tested: **14FCZ2-44-UNV-L82765-CP125-W2A-U-5000K**

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: P307768
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 4180.0 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

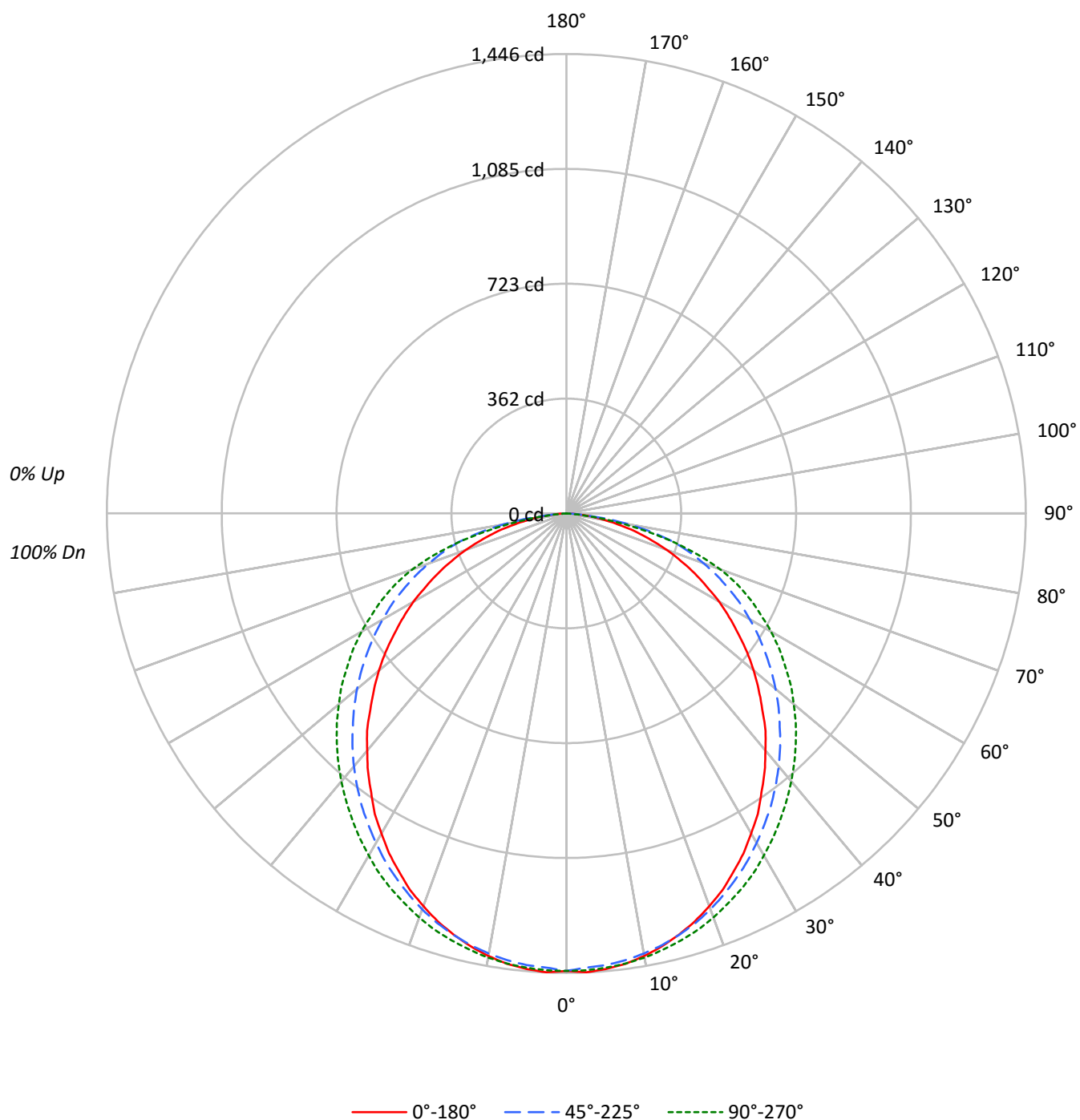
Input Watts (W): 39.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				0
RW	70	50	30	10	70	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		100
1	109	104	99	95	106	101	97	94	97	94	91		93	90	88		83
2	98	90	83	77	96	88	82	76	84	79	74		81	77	73		69
3	89	79	70	64	87	77	69	63	74	67	62		71	66	61		58
4	82	70	61	54	79	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	51	42	35	63	50	41	35	48	41	35		47	40	35		32
8	60	46	37	32	58	45	37	31	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	39	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3875	3875	3875
5°	3887	3855	3877
10°	3863	3843	3879
15°	3822	3825	3877
20°	3766	3798	3875
25°	3695	3761	3871
30°	3614	3722	3864
35°	3518	3689	3861
40°	3425	3654	3867
45°	3320	3615	3887
50°	3223	3598	3914
55°	3100	3586	3948
60°	2990	3592	4003
65°	2837	3603	4066
70°	2662	3630	4063
75°	2413	3663	3672
80°	1979	3163	2614
85°	1467	1497	605



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.3	3.3
10°-20°	389.3	9.3
20°-30°	586.4	14.0
30°-40°	703.6	16.8
40°-50°	733.4	17.5
50°-60°	679.0	16.2
60°-70°	548.6	13.1
70°-80°	334.5	8.0
80°-90°	69.1	1.7
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°	1111.9	26.6
0°-40°	1815.5	43.4
0°-60°	3227.9	77.2
0°-90°	4180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4180.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1440	1440	1440	1440	1440	
5°	1439	1435	1427	1437	1435	137
15°	1372	1373	1373	1392	1392	387
25°	1244	1252	1267	1298	1304	573
35°	1071	1088	1123	1164	1175	671
45°	872	898	950	1003	1022	674
55°	661	695	764	824	842	592
65°	446	489	566	623	638	440
75°	232	283	352	358	353	244
85°	48	71	48	27	20	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1440.0	1440.0	1440.0	1440.0	1440.0
2.5°	1445.6	1441.0	1430.7	1441.0	1439.1
5°	1439.1	1435.4	1427.0	1437.2	1435.4
7.5°	1429.8	1426.0	1418.6	1430.7	1428.8
10°	1413.9	1412.1	1406.5	1420.5	1419.5
12.5°	1395.3	1394.4	1391.6	1407.4	1406.5
15°	1372.0	1372.9	1372.9	1391.6	1391.6
17.5°	1345.9	1347.8	1351.5	1372.0	1374.8
20°	1315.1	1318.9	1326.3	1349.6	1353.3
22.5°	1283.4	1286.2	1297.4	1325.4	1329.1
25°	1244.3	1251.7	1266.7	1298.4	1303.9
27.5°	1207.0	1213.5	1234.0	1266.7	1276.0
30°	1163.2	1173.5	1197.7	1233.1	1243.4
32.5°	1121.3	1132.4	1160.4	1201.4	1210.7
35°	1070.9	1087.7	1123.1	1164.1	1175.3
37.5°	1025.3	1041.1	1081.2	1125.9	1139.0
40°	974.9	994.5	1040.2	1087.7	1100.8
42.5°	928.3	947.0	996.4	1044.8	1062.5
45°	872.4	898.5	949.8	1002.9	1021.5
47.5°	821.1	847.2	906.0	962.8	979.6
50°	769.9	797.8	859.4	918.1	934.9
52.5°	716.7	746.6	812.8	871.5	891.0
55°	660.8	695.3	764.3	823.9	841.6
57.5°	607.7	643.1	716.7	777.3	795.0
60°	555.5	591.9	667.4	725.1	743.8
62.5°	497.7	540.6	618.9	675.7	689.7
65°	445.5	489.3	565.8	622.6	638.5
67.5°	390.5	438.1	514.5	566.7	581.6
70°	338.3	387.7	461.4	509.8	516.4
72.5°	282.4	332.7	407.3	438.1	438.1
75°	232.1	283.3	352.3	357.9	353.2
77.5°	177.1	233.9	278.7	267.5	256.3
80°	127.7	183.6	204.1	183.6	168.7
82.5°	85.7	133.3	123.0	97.9	86.7
85°	47.5	70.8	48.5	27.0	19.6
87.5°	17.7	15.8	4.7	4.7	4.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)