

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: P307752

Luminaire Tested: **14FCZ2-44-UNV-L82765-CA08-W2A-U-5700K**

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: P307752
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-CA08-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5700K 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: 4333.0 lumens
Efficiency: N/A
Efficacy: 110.0 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

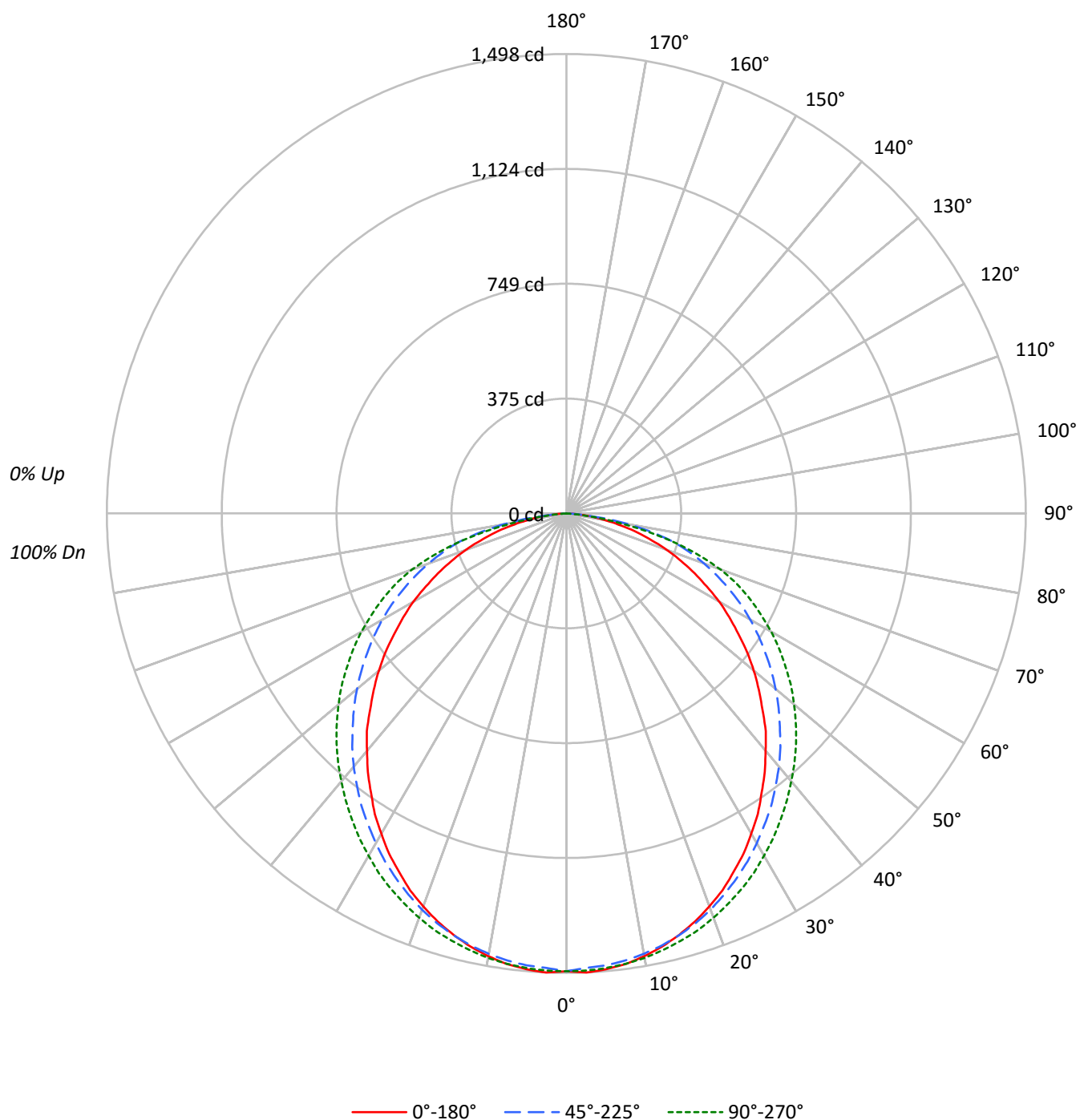
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	4017	4017	4017
5°	4030	3996	4019
10°	4005	3984	4021
15°	3962	3965	4019
20°	3904	3937	4017
25°	3830	3899	4013
30°	3747	3858	4005
35°	3647	3824	4002
40°	3550	3788	4008
45°	3441	3747	4030
50°	3341	3729	4057
55°	3214	3717	4093
60°	3099	3723	4149
65°	2940	3734	4214
70°	2759	3763	4212
75°	2502	3797	3807
80°	2052	3279	2710
85°	1522	1550	627



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.3	3.3
10°-20°	403.5	9.3
20°-30°	607.8	14.0
30°-40°	729.4	16.8
40°-50°	760.2	17.5
50°-60°	703.8	16.2
60°-70°	568.7	13.1
70°-80°	346.7	8.0
80°-90°	71.6	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°	1152.6	26.6
0°-40°	1882.0	43.4
0°-60°	3346.0	77.2
0°-90°	4333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1493	1493	1493	1493	1493	
5°	1492	1488	1479	1490	1488	142
15°	1422	1423	1423	1442	1442	401
25°	1290	1298	1313	1346	1352	594
35°	1110	1128	1164	1207	1218	695
45°	904	931	984	1040	1059	699
55°	685	721	792	854	872	614
65°	462	507	586	645	662	457
75°	241	294	365	371	366	253
85°	49	73	50	28	20	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1492.7	1492.7	1492.7	1492.7	1492.7
2.5°	1498.5	1493.7	1483.1	1493.7	1491.8
5°	1491.8	1487.9	1479.2	1489.8	1487.9
7.5°	1482.1	1478.2	1470.5	1483.1	1481.1
10°	1465.7	1463.7	1458.0	1472.4	1471.5
12.5°	1446.4	1445.4	1442.5	1458.9	1458.0
15°	1422.2	1423.2	1423.2	1442.5	1442.5
17.5°	1395.1	1397.1	1400.9	1422.2	1425.1
20°	1363.3	1367.1	1374.9	1399.0	1402.9
22.5°	1330.4	1333.3	1344.9	1373.9	1377.8
25°	1289.8	1297.6	1313.0	1345.9	1351.7
27.5°	1251.2	1258.0	1279.2	1313.0	1322.7
30°	1205.8	1216.4	1241.5	1278.2	1288.9
32.5°	1162.3	1173.9	1202.9	1245.4	1255.1
35°	1110.1	1127.5	1164.2	1206.7	1218.3
37.5°	1062.8	1079.2	1120.8	1167.1	1180.7
40°	1010.6	1030.9	1078.2	1127.5	1141.0
42.5°	962.3	981.6	1032.8	1083.1	1101.4
45°	904.3	931.4	984.5	1039.6	1058.9
47.5°	851.2	878.2	939.1	998.1	1015.4
50°	798.1	827.0	890.8	951.7	969.1
52.5°	743.0	773.9	842.5	903.4	923.7
55°	685.0	720.8	792.3	854.1	872.5
57.5°	629.9	666.7	743.0	805.8	824.1
60°	575.8	613.5	691.8	751.7	771.0
62.5°	515.9	560.4	641.5	700.5	715.0
65°	461.8	507.2	586.5	645.4	661.8
67.5°	404.8	454.1	533.3	587.4	602.9
70°	350.7	401.9	478.3	528.5	535.3
72.5°	292.7	344.9	422.2	454.1	454.1
75°	240.6	293.7	365.2	371.0	366.2
77.5°	183.6	242.5	288.9	277.3	265.7
80°	132.4	190.3	211.6	190.3	174.9
82.5°	88.9	138.2	127.5	101.4	89.9
85°	49.3	73.4	50.2	28.0	20.3
87.5°	18.4	16.4	4.8	4.8	4.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)