

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: P307708

Luminaire Tested: **14FCZ2-39-UNV-L82765-CA08-W2A-U-6500K**

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: P307708
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: 14FCZ2-39-UNV-L82765-CA08-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 6500K 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: 3886.0 lumens
Efficiency: N/A
Efficacy: 111.7 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

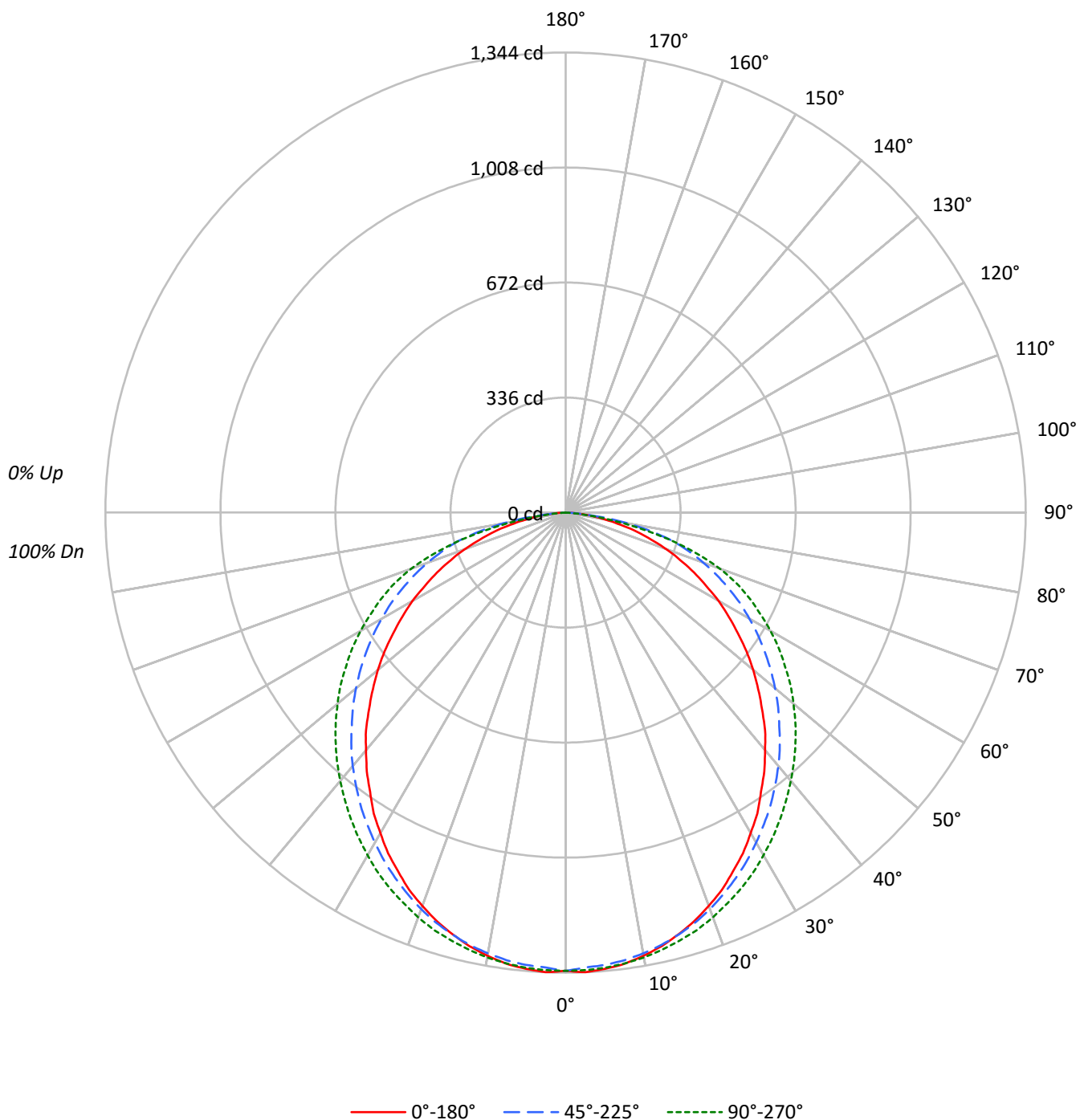
Input Watts (W): 34.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3602	3602	3602
5°	3614	3583	3605
10°	3592	3573	3606
15°	3553	3556	3604
20°	3501	3531	3603
25°	3435	3496	3599
30°	3360	3460	3592
35°	3271	3430	3590
40°	3184	3397	3595
45°	3086	3360	3614
50°	2996	3345	3638
55°	2882	3333	3671
60°	2779	3339	3722
65°	2637	3349	3780
70°	2474	3375	3777
75°	2244	3405	3414
80°	1839	2941	2430
85°	1365	1392	562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.7	3.3
10°-20°	361.9	9.3
20°-30°	545.1	14.0
30°-40°	654.2	16.8
40°-50°	681.8	17.5
50°-60°	631.2	16.2
60°-70°	510.0	13.1
70°-80°	311.0	8.0
80°-90°	64.2	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°	1033.7	26.6
0°-40°	1687.8	43.4
0°-60°	3000.9	77.2
0°-90°	3886.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3886.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1339	1339	1339	1339	1339	
5°	1338	1334	1327	1336	1334	127
15°	1276	1276	1276	1294	1294	360
25°	1157	1164	1178	1207	1212	533
35°	996	1011	1044	1082	1093	624
45°	811	835	883	932	950	627
55°	614	646	710	766	782	550
65°	414	455	526	579	594	410
75°	216	263	328	333	328	227
85°	44	66	45	25	18	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.7	1338.7	1338.7	1338.7	1338.7
2.5°	1343.9	1339.6	1330.1	1339.6	1337.9
5°	1337.9	1334.4	1326.6	1336.1	1334.4
7.5°	1329.2	1325.7	1318.8	1330.1	1328.3
10°	1314.5	1312.7	1307.5	1320.5	1319.7
12.5°	1297.1	1296.3	1293.7	1308.4	1307.5
15°	1275.5	1276.4	1276.4	1293.7	1293.7
17.5°	1251.2	1253.0	1256.4	1275.5	1278.1
20°	1222.6	1226.1	1233.0	1254.7	1258.2
22.5°	1193.2	1195.8	1206.2	1232.2	1235.6
25°	1156.8	1163.7	1177.6	1207.0	1212.2
27.5°	1122.1	1128.2	1147.2	1177.6	1186.2
30°	1081.4	1090.9	1113.5	1146.4	1155.9
32.5°	1042.4	1052.8	1078.8	1116.9	1125.6
35°	995.6	1011.2	1044.1	1082.3	1092.7
37.5°	953.1	967.9	1005.1	1046.7	1058.9
40°	906.4	924.6	967.0	1011.2	1023.3
42.5°	863.0	880.4	926.3	971.3	987.8
45°	811.0	835.3	883.0	932.4	949.7
47.5°	763.4	787.6	842.2	895.1	910.7
50°	715.7	741.7	798.9	853.5	869.1
52.5°	666.3	694.1	755.6	810.2	828.4
55°	614.3	646.4	710.5	766.0	782.4
57.5°	565.0	597.9	666.3	722.7	739.1
60°	516.4	550.2	620.4	674.1	691.5
62.5°	462.7	502.6	575.4	628.2	641.2
65°	414.2	454.9	526.0	578.8	593.6
67.5°	363.1	407.3	478.3	526.8	540.7
70°	314.5	360.5	428.9	474.0	480.0
72.5°	262.5	309.3	378.7	407.3	407.3
75°	215.8	263.4	327.5	332.7	328.4
77.5°	164.6	217.5	259.1	248.7	238.3
80°	118.7	170.7	189.8	170.7	156.8
82.5°	79.7	123.9	114.4	91.0	80.6
85°	44.2	65.9	45.1	25.1	18.2
87.5°	16.5	14.7	4.3	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)