

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: P307661

Luminaire Tested: **14FCZ2-35-UNV-L82765-CA08-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: P307661
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: 14FCZ2-35-UNV-L82765-CA08-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.08" 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: 3503.0 lumens
Efficiency: N/A
Efficacy: 115.6 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

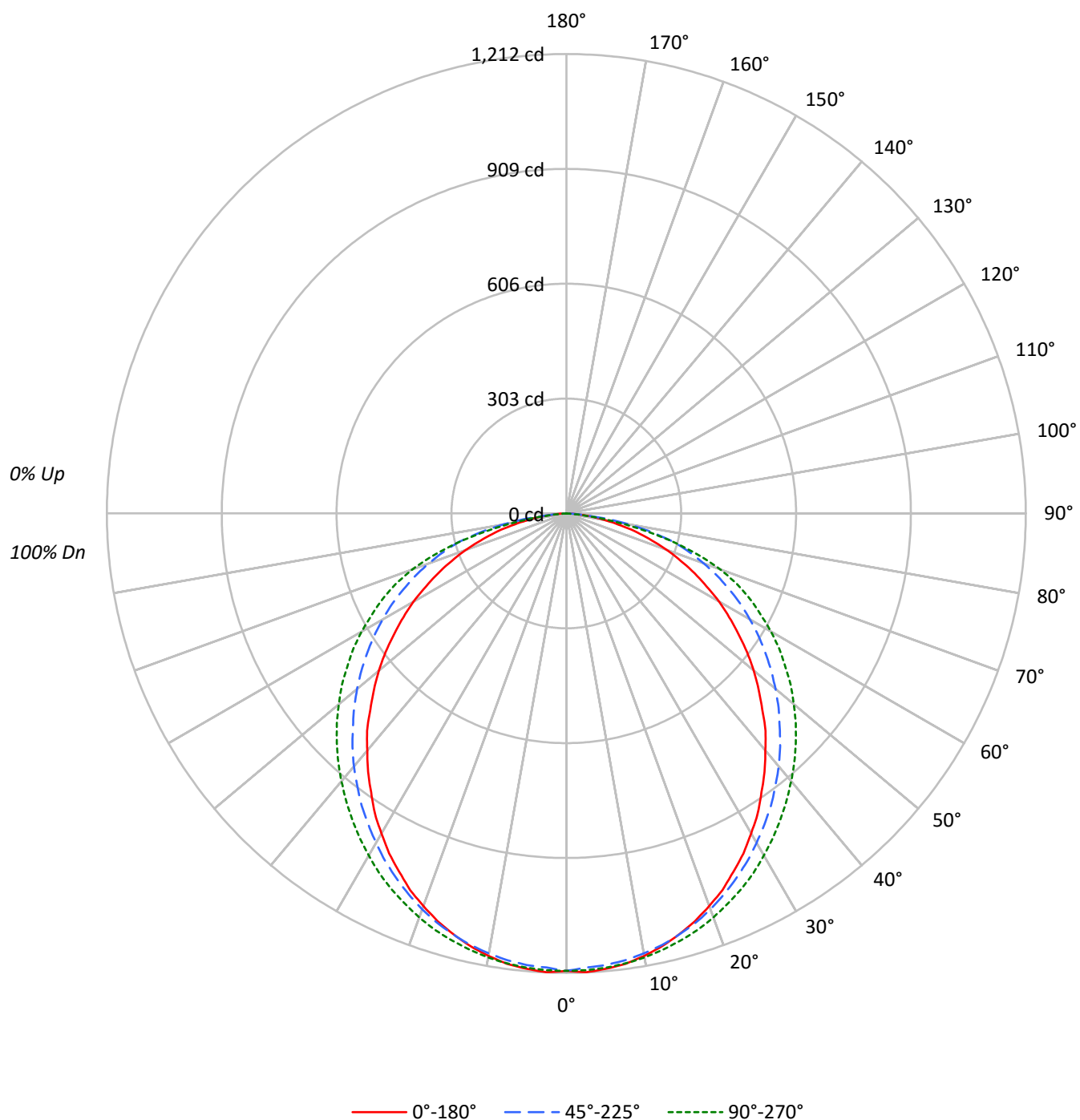
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3247	3247	3247
5°	3258	3230	3249
10°	3238	3221	3251
15°	3203	3205	3249
20°	3156	3183	3248
25°	3096	3152	3245
30°	3029	3119	3238
35°	2948	3092	3236
40°	2870	3062	3241
45°	2782	3029	3258
50°	2701	3015	3280
55°	2598	3005	3309
60°	2505	3010	3355
65°	2378	3019	3407
70°	2231	3042	3404
75°	2022	3070	3078
80°	1658	2651	2191
85°	1229	1254	506



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	3.3
10°-20°	326.2	9.3
20°-30°	491.4	14.0
30°-40°	589.7	16.8
40°-50°	614.6	17.5
50°-60°	569.0	16.2
60°-70°	459.7	13.1
70°-80°	280.3	8.0
80°-90°	57.9	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°	931.8	26.6
0°-40°	1521.5	43.4
0°-60°	2705.1	77.2
0°-90°	3503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3503.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1207	1207	1207	1207	1207	
5°	1206	1203	1196	1204	1203	114
15°	1150	1151	1151	1166	1166	324
25°	1043	1049	1062	1088	1093	481
35°	898	912	941	976	985	562
45°	731	753	796	840	856	565
55°	554	583	640	690	705	496
65°	373	410	474	522	535	369
75°	194	238	295	300	296	204
85°	40	59	41	23	16	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1206.8	1206.8	1206.8	1206.8	1206.8
2.5°	1211.5	1207.6	1199.0	1207.6	1206.0
5°	1206.0	1202.9	1195.9	1204.5	1202.9
7.5°	1198.2	1195.1	1188.8	1199.0	1197.4
10°	1184.9	1183.4	1178.7	1190.4	1189.6
12.5°	1169.3	1168.5	1166.2	1179.5	1178.7
15°	1149.8	1150.6	1150.6	1166.2	1166.2
17.5°	1127.9	1129.5	1132.6	1149.8	1152.1
20°	1102.1	1105.3	1111.5	1131.0	1134.2
22.5°	1075.6	1077.9	1087.3	1110.7	1113.8
25°	1042.8	1049.0	1061.5	1088.1	1092.8
27.5°	1011.5	1017.0	1034.2	1061.5	1069.3
30°	974.8	983.4	1003.7	1033.4	1042.0
32.5°	939.7	949.0	972.5	1006.8	1014.6
35°	897.5	911.5	941.2	975.6	985.0
37.5°	859.2	872.5	906.1	943.6	954.5
40°	817.0	833.4	871.7	911.5	922.5
42.5°	778.0	793.6	835.0	875.6	890.5
45°	731.1	753.0	795.9	840.5	856.1
47.5°	688.1	710.0	759.2	806.9	820.9
50°	645.2	668.6	720.2	769.4	783.4
52.5°	600.7	625.7	681.1	730.3	746.7
55°	553.8	582.7	640.5	690.5	705.3
57.5°	509.3	539.0	600.7	651.4	666.3
60°	465.5	496.0	559.3	607.7	623.3
62.5°	417.1	453.0	518.6	566.3	578.0
65°	373.4	410.1	474.1	521.8	535.1
67.5°	327.3	367.1	431.2	474.9	487.4
70°	283.5	324.9	386.6	427.3	432.7
72.5°	236.7	278.9	341.3	367.1	367.1
75°	194.5	237.5	295.3	299.9	296.0
77.5°	148.4	196.1	233.5	224.2	214.8
80°	107.0	153.9	171.1	153.9	141.4
82.5°	71.9	111.7	103.1	82.0	72.6
85°	39.8	59.4	40.6	22.7	16.4
87.5°	14.8	13.3	3.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)