

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: P307225

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP125-W2A-U-3500K**

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: P307225
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
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-HRP-CP125-W2A-U-3500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB SHEET
Light Source: (168) 3500K 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: 3008.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

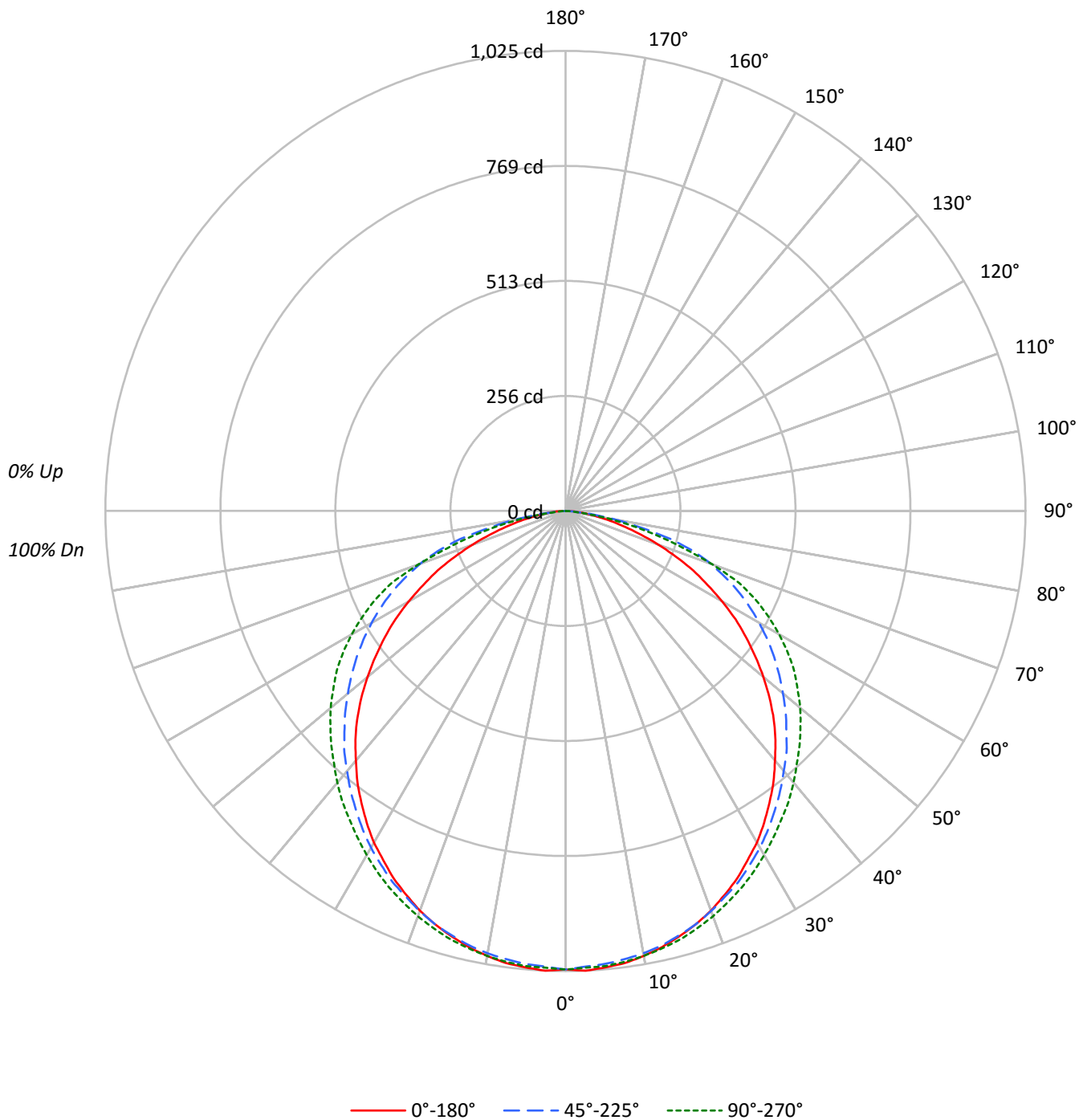
Input Watts (W): 38.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	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	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2749	2749	2749
5°	2757	2736	2749
10°	2750	2734	2750
15°	2733	2727	2754
20°	2714	2717	2752
25°	2685	2707	2752
30°	2651	2692	2751
35°	2604	2672	2756
40°	2552	2658	2778
45°	2498	2649	2808
50°	2411	2649	2859
55°	2307	2662	2920
60°	2168	2683	2957
65°	1999	2710	2975
70°	1741	2716	2739
75°	1436	2528	2213
80°	1128	1818	1480
85°	877	701	352



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.2
10°-20°	277.5	9.2
20°-30°	421.4	14.0
30°-40°	510.6	17.0
40°-50°	538.1	17.9
50°-60°	502.3	16.7
60°-70°	401.4	13.3
70°-80°	220.9	7.3
80°-90°	39.0	1.3
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°	795.6	26.5
0°-40°	1306.3	43.4
0°-60°	2346.7	78.0
0°-90°	3008.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3008.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1021	1018	1013	1020	1018	97
15°	981	981	979	988	988	277
25°	904	906	912	925	927	416
35°	793	800	813	834	839	496
45°	656	669	696	727	738	505
55°	492	516	568	607	622	439
65°	314	354	426	461	467	309
75°	138	198	243	218	213	149
85°	28	36	23	14	11	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1021.5	1021.5	1021.5	1021.5	1021.5
2.5°	1025.3	1022.5	1015.9	1021.5	1018.7
5°	1020.6	1017.7	1013.0	1019.6	1017.7
7.5°	1015.9	1012.1	1007.3	1014.9	1013.0
10°	1006.4	1003.6	1000.7	1007.3	1006.4
12.5°	995.0	994.1	991.3	998.8	997.9
15°	980.9	980.9	979.0	988.4	988.4
17.5°	965.7	964.8	965.7	976.1	975.2
20°	947.8	947.8	948.7	961.0	961.0
22.5°	926.0	926.9	929.8	944.9	944.0
25°	904.2	906.1	911.8	925.1	926.9
27.5°	877.8	882.5	889.1	905.2	907.1
30°	853.2	856.0	866.4	881.5	885.3
32.5°	823.8	829.5	840.9	857.9	862.6
35°	792.6	800.2	813.4	834.3	839.0
37.5°	761.4	768.0	786.0	807.8	816.3
40°	726.4	737.8	756.7	781.3	790.7
42.5°	692.4	703.7	729.3	754.8	763.3
45°	656.4	668.7	696.2	727.4	737.8
47.5°	616.7	630.9	665.9	699.0	710.3
50°	576.0	594.0	632.8	669.7	682.9
52.5°	533.5	556.2	600.6	639.4	651.7
55°	491.8	516.4	567.5	607.2	622.4
57.5°	449.3	475.8	533.5	578.9	587.4
60°	402.9	435.1	498.5	538.2	549.5
62.5°	357.5	394.4	462.5	500.4	509.8
65°	314.0	353.8	425.6	460.6	467.3
67.5°	266.7	314.0	385.0	417.1	419.0
70°	221.3	276.2	345.2	360.4	348.1
72.5°	176.9	235.5	298.9	286.6	276.2
75°	138.1	197.7	243.1	218.5	212.8
77.5°	102.2	161.7	174.0	160.8	150.4
80°	72.8	127.7	117.3	100.3	95.5
82.5°	50.1	80.4	64.3	50.1	43.5
85°	28.4	35.9	22.7	14.2	11.4
87.5°	12.3	8.5	4.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)