

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: P307673

Luminaire Tested: **14FCZ2-35-UNV-L82765-CP125-W2A-U-2700K**

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: P307673
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-CP125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 2700K 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: 3020.0 lumens
Efficiency: N/A
Efficacy: 102.4 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

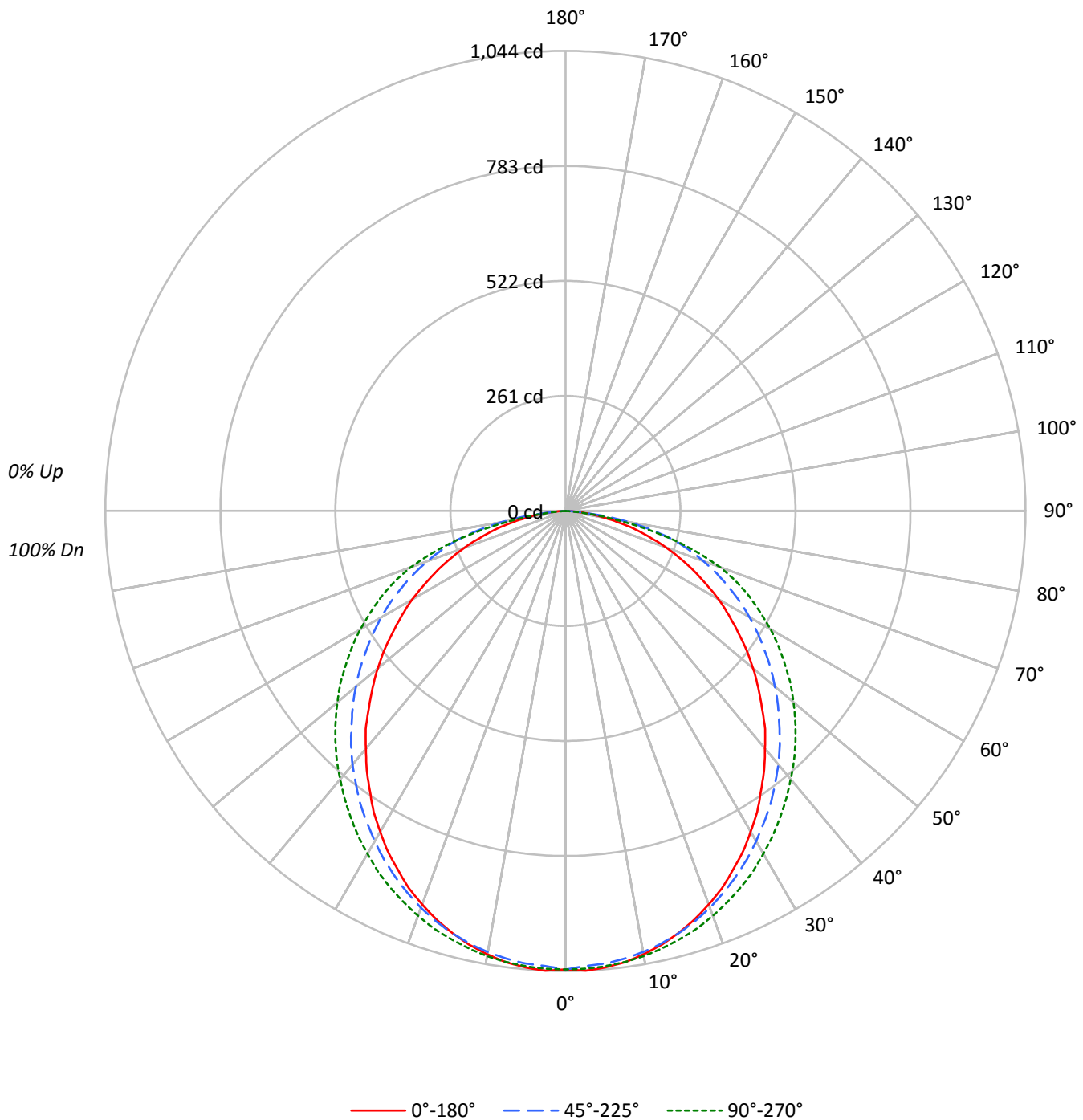
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2800	2800	2800
5°	2808	2785	2801
10°	2791	2777	2802
15°	2761	2763	2801
20°	2721	2744	2800
25°	2669	2717	2797
30°	2611	2689	2791
35°	2542	2666	2790
40°	2474	2640	2794
45°	2399	2611	2809
50°	2328	2599	2828
55°	2240	2591	2853
60°	2160	2595	2892
65°	2050	2603	2937
70°	1923	2622	2936
75°	1744	2646	2653
80°	1430	2286	1889
85°	1059	1081	435



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	3.3
10°-20°	281.2	9.3
20°-30°	423.6	14.0
30°-40°	508.4	16.8
40°-50°	529.9	17.5
50°-60°	490.5	16.2
60°-70°	396.3	13.1
70°-80°	241.7	8.0
80°-90°	49.9	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°	803.3	26.6
0°-40°	1311.7	43.4
0°-60°	2332.1	77.2
0°-90°	3020.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3020.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1040	1040	1040	1040	1040	
5°	1040	1037	1031	1038	1037	99
15°	991	992	992	1005	1005	279
25°	899	904	915	938	942	414
35°	774	786	811	841	849	485
45°	630	649	686	725	738	487
55°	477	502	552	595	608	428
65°	322	354	409	450	461	318
75°	168	205	254	259	255	176
85°	34	51	35	20	14	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1040.4	1040.4	1040.4	1040.4	1040.4
2.5°	1044.4	1041.1	1033.7	1041.1	1039.7
5°	1039.7	1037.0	1031.0	1038.4	1037.0
7.5°	1033.0	1030.3	1024.9	1033.7	1032.3
10°	1021.5	1020.2	1016.2	1026.3	1025.6
12.5°	1008.1	1007.4	1005.4	1016.8	1016.2
15°	991.2	991.9	991.9	1005.4	1005.4
17.5°	972.4	973.7	976.4	991.2	993.3
20°	950.2	952.9	958.2	975.1	977.8
22.5°	927.3	929.3	937.4	957.6	960.3
25°	899.0	904.4	915.1	938.0	942.1
27.5°	872.1	876.8	891.6	915.1	921.9
30°	840.4	847.8	865.3	890.9	898.3
32.5°	810.1	818.2	838.4	868.0	874.7
35°	773.7	785.9	811.4	841.1	849.2
37.5°	740.7	752.2	781.1	813.5	822.9
40°	704.4	718.5	751.5	785.9	795.3
42.5°	670.7	684.2	719.9	754.9	767.7
45°	630.3	649.2	686.2	724.6	738.0
47.5°	593.3	612.1	654.5	695.6	707.7
50°	556.2	576.4	620.9	663.3	675.4
52.5°	517.8	539.4	587.2	629.6	643.8
55°	477.4	502.4	552.2	595.3	608.1
57.5°	439.1	464.6	517.8	561.6	574.4
60°	401.3	427.6	482.2	523.9	537.4
62.5°	359.6	390.6	447.1	488.2	498.3
65°	321.9	353.5	408.8	449.8	461.3
67.5°	282.2	316.5	371.7	409.4	420.2
70°	244.4	280.1	333.3	368.3	373.1
72.5°	204.0	240.4	294.3	316.5	316.5
75°	167.7	204.7	254.5	258.6	255.2
77.5°	127.9	169.0	201.3	193.3	185.2
80°	92.3	132.7	147.5	132.7	121.9
82.5°	62.0	96.3	88.9	70.7	62.6
85°	34.3	51.2	35.0	19.5	14.1
87.5°	12.8	11.4	3.4	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)