

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: P308758

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-CP125-W2A-U-5000K**

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: P308758
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-33)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 22FCZ2-34HE-UNV-L82765-CP125-W2A-U-5000K
Description: 2'X2' TROFFER LED MODULE, RIBBED LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 3114.0 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

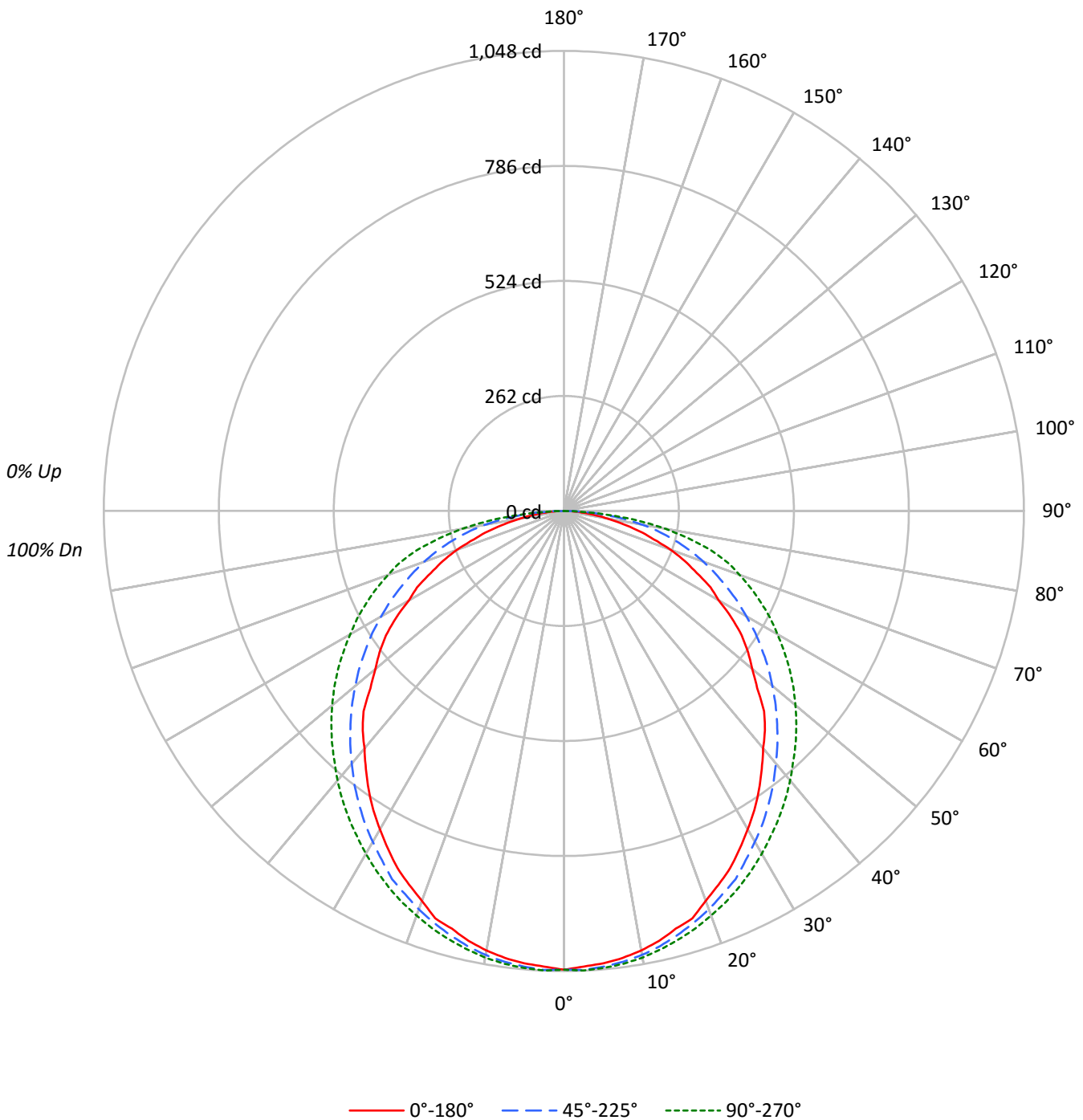
Input Watts (W): 28.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	90	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	60	53	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2812	2812	2812
5°	2794	2814	2822
10°	2778	2806	2822
15°	2745	2786	2815
20°	2706	2766	2808
25°	2664	2748	2806
30°	2603	2705	2802
35°	2546	2673	2805
40°	2482	2639	2817
45°	2456	2615	2842
50°	2346	2596	2883
55°	2321	2587	2944
60°	2190	2583	3024
65°	2126	2600	3160
70°	2040	2662	3354
75°	1859	2743	3611
80°	1593	2841	3649
85°	1288	2714	3128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.9	3.2
10°-20°	282.0	9.1
20°-30°	424.5	13.6
30°-40°	509.4	16.4
40°-50°	532.5	17.1
50°-60°	496.2	15.9
60°-70°	407.0	13.1
70°-80°	274.2	8.8
80°-90°	89.3	2.9
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°	805.3	25.9
0°-40°	1314.8	42.2
0°-60°	2343.5	75.3
0°-90°	3114.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3114.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1045	1045	1045	1045	1045	
5°	1034	1037	1042	1043	1045	98
15°	985	991	1000	1009	1010	278
25°	897	903	926	939	945	412
35°	775	785	814	842	854	485
45°	645	650	687	729	747	493
55°	495	504	551	604	628	438
65°	334	349	408	468	496	332
75°	179	198	264	323	347	188
85°	42	60	88	103	101	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1044.8	1044.8	1044.8	1044.8	1044.8
2.5°	1038.8	1041.8	1046.3	1047.8	1047.8
5°	1034.3	1037.3	1041.8	1043.3	1044.8
7.5°	1026.9	1029.9	1035.8	1038.8	1040.3
10°	1016.5	1019.4	1026.9	1031.4	1032.9
12.5°	1003.0	1006.0	1015.0	1020.9	1022.4
15°	985.2	991.1	1000.1	1009.0	1010.5
17.5°	973.2	971.7	983.7	994.1	997.1
20°	944.9	952.4	965.8	977.7	980.7
22.5°	921.1	927.0	944.9	958.3	964.3
25°	897.2	903.2	925.5	939.0	944.9
27.5°	867.4	876.4	897.2	916.6	924.1
30°	837.6	846.5	870.4	892.8	901.7
32.5°	807.8	818.2	843.6	867.4	877.8
35°	775.0	785.4	813.8	842.1	854.0
37.5°	740.7	754.1	784.0	815.3	828.7
40°	706.5	719.9	751.2	786.9	801.8
42.5°	678.1	684.1	719.9	758.6	773.5
45°	645.3	649.8	687.1	728.8	746.7
47.5°	597.7	614.0	654.3	700.5	718.4
50°	560.4	578.3	620.0	669.2	688.6
52.5°	529.1	541.0	587.2	636.4	658.8
55°	494.8	503.8	551.4	603.6	627.5
57.5°	453.1	469.5	517.2	570.8	594.7
60°	406.9	427.7	479.9	538.0	561.9
62.5°	377.1	389.0	445.6	503.8	530.6
65°	333.9	348.8	408.4	468.0	496.3
67.5°	298.1	313.0	374.1	433.7	462.0
70°	259.3	274.2	338.3	397.9	426.3
72.5°	214.6	235.5	302.6	362.2	392.0
75°	178.8	198.2	263.8	323.4	347.3
77.5°	138.6	163.9	225.1	274.2	292.1
80°	102.8	128.2	183.3	219.1	235.5
82.5°	70.0	95.4	137.1	163.9	172.9
85°	41.7	59.6	87.9	102.8	101.3
87.5°	19.4	25.3	35.8	35.8	34.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)