

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: P307902

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4500K**

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: P307902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-29-UNV-L82765-S-CP125-W2A-U-4500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 4500K 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: 2810.0 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

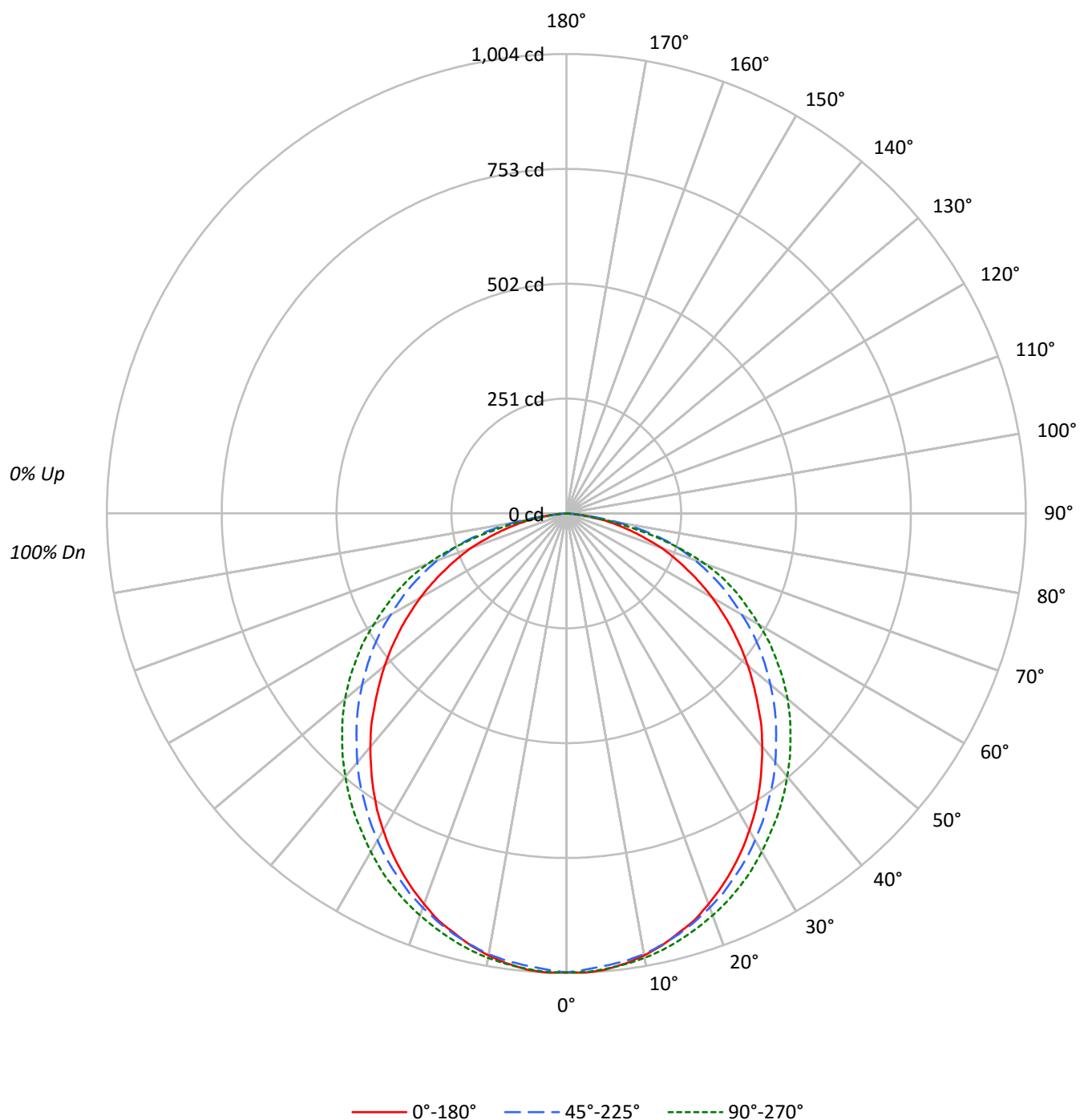
Input Watts (W): 24.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30		
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27		
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2699	2699	2699
5°	2702	2680	2698
10°	2680	2672	2695
15°	2643	2651	2686
20°	2601	2625	2677
25°	2548	2594	2668
30°	2485	2563	2654
35°	2417	2527	2645
40°	2340	2496	2638
45°	2253	2466	2635
50°	2170	2438	2642
55°	2078	2419	2634
60°	1979	2384	2617
65°	1863	2378	2617
70°	1754	2356	2543
75°	1521	2303	2173
80°	1230	1857	1446
85°	818	645	429



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.7	3.4
10°-20°	269.5	9.6
20°-30°	404.3	14.4
30°-40°	482.3	17.2
40°-50°	498.6	17.7
50°-60°	455.2	16.2
60°-70°	358.3	12.7
70°-80°	208.5	7.4
80°-90°	38.4	1.4
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°	768.6	27.4
0°-40°	1250.9	44.5
0°-60°	2204.8	78.5
0°-90°	2810.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2810.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1003	1003	1003	1003	1003	
5°	1000	998	992	1000	999	95
15°	949	950	952	964	964	268
25°	858	862	874	894	899	395
35°	736	745	769	798	805	460
45°	592	612	648	684	692	457
55°	443	467	516	553	562	396
65°	293	323	373	403	411	291
75°	146	181	222	217	209	156
85°	26	38	21	17	14	34
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1003.1	1003.1	1003.1	1003.1	1003.1
2.5°	1004.5	1001.7	997.6	1004.5	1003.1
5°	1000.3	997.6	992.0	1000.3	998.9
7.5°	992.0	989.2	986.4	994.8	993.4
10°	980.8	979.4	978.0	987.8	986.4
12.5°	966.9	966.9	965.5	976.7	976.7
15°	948.8	950.2	951.6	964.1	964.1
17.5°	932.1	930.7	934.9	948.8	950.2
20°	908.4	911.2	916.7	933.5	934.9
22.5°	884.7	887.5	897.2	914.0	918.1
25°	858.2	862.4	873.6	894.5	898.6
27.5°	830.4	835.9	851.3	873.6	877.7
30°	799.7	808.1	824.8	849.9	854.0
32.5°	769.1	777.4	798.3	823.4	829.0
35°	735.6	745.4	769.1	798.3	805.3
37.5°	700.8	713.3	741.2	770.5	778.8
40°	666.0	679.9	710.5	741.2	750.9
42.5°	631.1	645.1	678.5	713.3	723.1
45°	592.1	611.6	647.9	684.1	692.4
47.5°	554.5	575.4	615.8	652.0	663.2
50°	518.3	539.2	582.4	620.0	631.1
52.5°	480.7	503.0	548.9	587.9	597.7
55°	443.0	466.7	515.5	553.1	561.5
57.5°	405.4	430.5	480.7	516.9	526.6
60°	367.8	394.3	443.0	479.3	486.2
62.5°	330.2	358.1	408.2	440.3	447.2
65°	292.6	323.2	373.4	402.6	411.0
67.5°	256.4	287.0	335.8	363.6	370.6
70°	222.9	250.8	299.5	320.4	323.2
72.5°	181.1	216.0	263.3	274.5	267.5
75°	146.3	181.1	221.5	217.3	209.0
77.5°	111.5	146.3	172.8	158.8	147.7
80°	79.4	114.2	119.8	98.9	93.3
82.5°	51.5	79.4	66.9	51.5	41.8
85°	26.5	37.6	20.9	16.7	13.9
87.5°	8.4	5.6	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)