

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: P307904

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CP125-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: P307904
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-5500K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB 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: 2876.0 lumens
Efficiency: N/A
Efficacy: 117.4 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

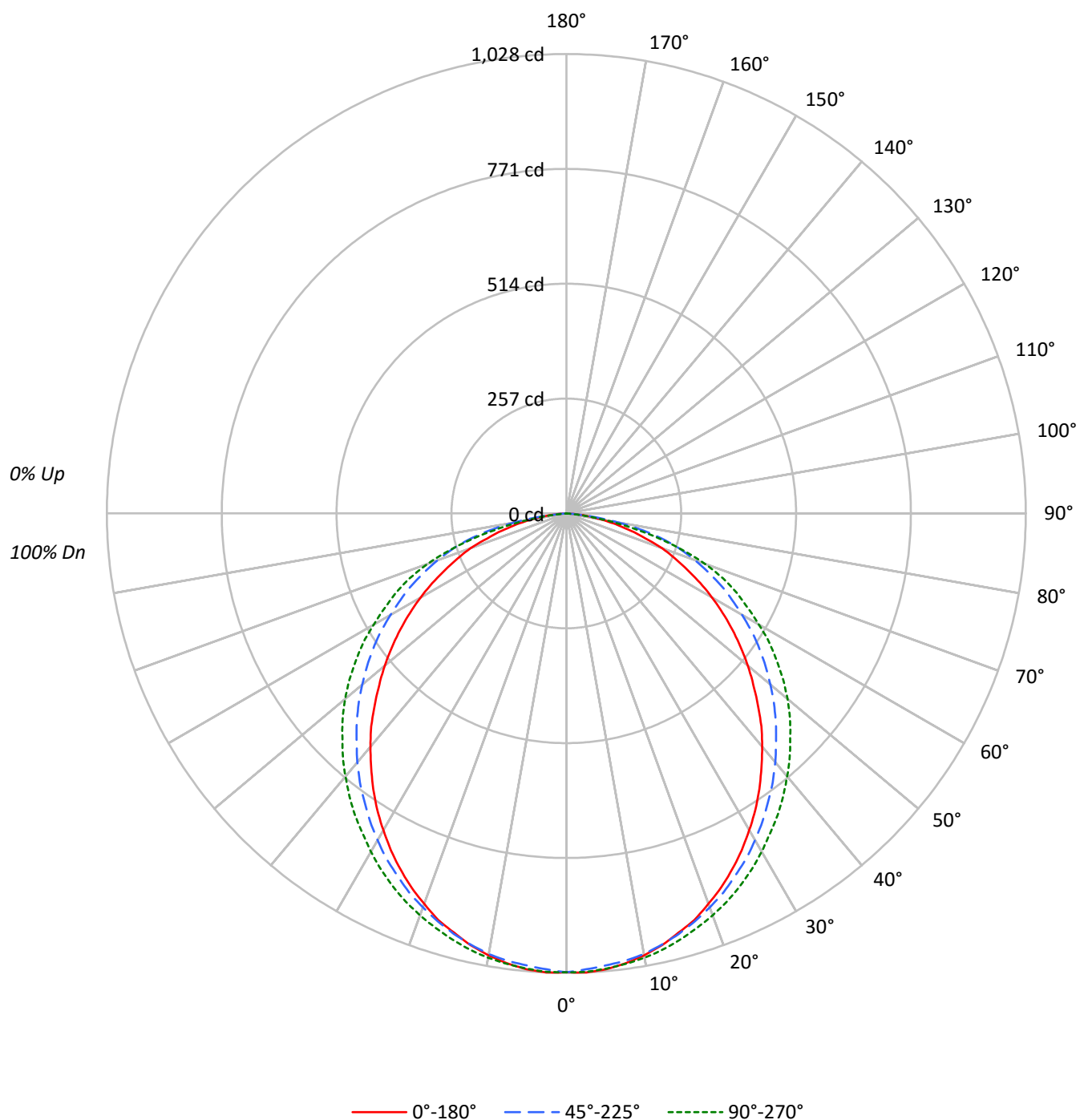
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2763	2763	2763
5°	2766	2743	2762
10°	2743	2735	2759
15°	2705	2713	2749
20°	2662	2687	2740
25°	2608	2655	2731
30°	2543	2623	2716
35°	2473	2586	2708
40°	2394	2555	2700
45°	2306	2524	2697
50°	2221	2495	2704
55°	2128	2475	2696
60°	2026	2441	2679
65°	1906	2434	2679
70°	1795	2412	2603
75°	1556	2357	2224
80°	1260	1900	1480
85°	837	661	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.9	3.4
10°-20°	275.9	9.6
20°-30°	413.8	14.4
30°-40°	493.7	17.2
40°-50°	510.3	17.7
50°-60°	465.9	16.2
60°-70°	366.7	12.7
70°-80°	213.4	7.4
80°-90°	39.3	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°	786.7	27.4
0°-40°	1280.3	44.5
0°-60°	2256.6	78.5
0°-90°	2876.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1027	1027	1027	1027	1027	
5°	1024	1021	1015	1024	1022	97
15°	971	972	974	987	987	274
25°	878	883	894	916	920	404
35°	753	763	787	817	824	471
45°	606	626	663	700	709	468
55°	454	478	528	566	575	406
65°	299	331	382	412	421	297
75°	150	185	227	222	214	159
85°	27	38	21	17	14	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1026.7	1026.7	1026.7	1026.7	1026.7
2.5°	1028.1	1025.3	1021.0	1028.1	1026.7
5°	1023.8	1021.0	1015.3	1023.8	1022.4
7.5°	1015.3	1012.4	1009.6	1018.1	1016.7
10°	1003.9	1002.4	1001.0	1011.0	1009.6
12.5°	989.6	989.6	988.2	999.6	999.6
15°	971.1	972.5	973.9	986.8	986.8
17.5°	954.0	952.5	956.8	971.1	972.5
20°	929.7	932.6	938.3	955.4	956.8
22.5°	905.5	908.3	918.3	935.4	939.7
25°	878.4	882.7	894.1	915.5	919.7
27.5°	849.9	855.6	871.3	894.1	898.3
30°	818.5	827.1	844.2	869.8	874.1
32.5°	787.1	795.7	817.1	842.7	848.4
35°	752.9	762.9	787.1	817.1	824.2
37.5°	717.3	730.1	758.6	788.6	797.1
40°	681.6	695.9	727.2	758.6	768.6
42.5°	646.0	660.2	694.4	730.1	740.1
45°	606.0	626.0	663.1	700.1	708.7
47.5°	567.5	588.9	630.3	667.3	678.8
50°	530.5	551.8	596.0	634.5	646.0
52.5°	492.0	514.8	561.8	601.8	611.7
55°	453.5	477.7	527.6	566.1	574.7
57.5°	415.0	440.6	492.0	529.0	539.0
60°	376.5	403.5	453.5	490.5	497.7
62.5°	338.0	366.5	417.8	450.6	457.7
65°	299.4	330.8	382.2	412.1	420.7
67.5°	262.4	293.7	343.7	372.2	379.3
70°	228.2	256.7	306.6	328.0	330.8
72.5°	185.4	221.0	269.5	280.9	273.8
75°	149.7	185.4	226.7	222.4	213.9
77.5°	114.1	149.7	176.8	162.6	151.2
80°	81.3	116.9	122.6	101.2	95.5
82.5°	52.8	81.3	68.4	52.8	42.8
85°	27.1	38.5	21.4	17.1	14.3
87.5°	8.6	5.7	2.9	2.9	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)