

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: P307627

Luminaire Tested: **14FCZ2-29-UNV-L82765-CA125-W2A-U-6500K**

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: P307627
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: 14FCZ2-29-UNV-L82765-CA125-W2A-U-6500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 6500K 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: 2918.0 lumens
Efficiency: N/A
Efficacy: 117.2 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

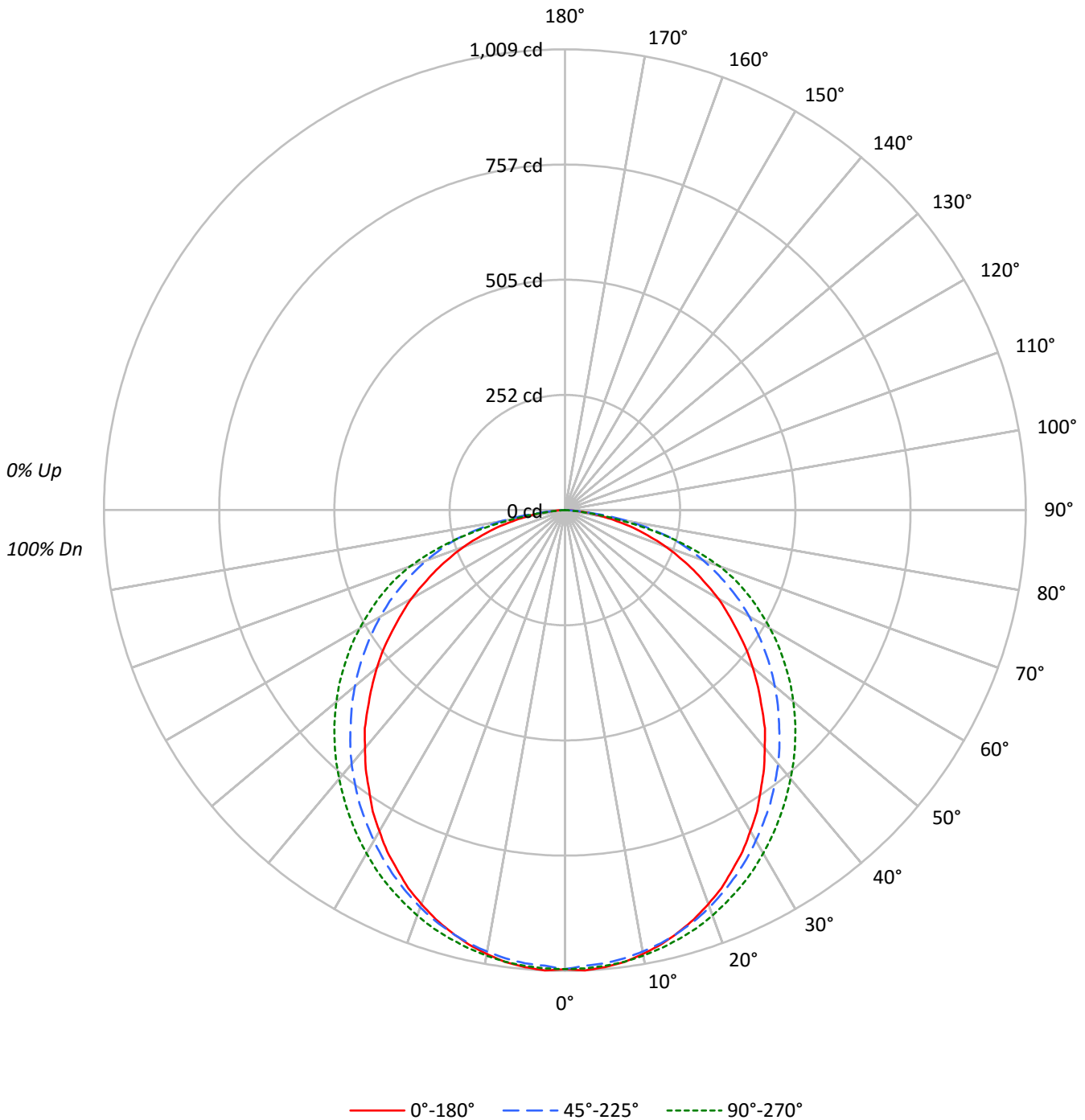
Input Watts (W): 24.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2705	2705	2705
5°	2714	2691	2707
10°	2697	2683	2708
15°	2668	2670	2706
20°	2629	2651	2705
25°	2579	2625	2703
30°	2523	2598	2697
35°	2456	2576	2695
40°	2391	2551	2699
45°	2318	2523	2714
50°	2250	2511	2732
55°	2164	2503	2756
60°	2087	2507	2794
65°	1980	2514	2838
70°	1858	2534	2836
75°	1684	2557	2564
80°	1381	2208	1826
85°	1025	1044	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.1	3.3
10°-20°	271.7	9.3
20°-30°	409.3	14.0
30°-40°	491.2	16.8
40°-50°	512.0	17.5
50°-60°	474.0	16.2
60°-70°	383.0	13.1
70°-80°	233.5	8.0
80°-90°	48.2	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°	776.2	26.6
0°-40°	1267.4	43.4
0°-60°	2253.3	77.2
0°-90°	2918.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2918.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1005	1005	1005	1005	1005	
5°	1005	1002	996	1003	1002	95
15°	958	958	958	971	971	270
25°	869	874	884	906	910	400
35°	748	759	784	813	820	468
45°	609	627	663	700	713	471
55°	461	485	534	575	588	413
65°	311	342	395	435	446	308
75°	162	198	246	250	247	170
85°	33	49	34	19	14	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1005.3	1005.3	1005.3	1005.3	1005.3
2.5°	1009.2	1005.9	998.8	1005.9	1004.6
5°	1004.6	1002.0	996.2	1003.3	1002.0
7.5°	998.1	995.5	990.3	998.8	997.5
10°	987.0	985.7	981.8	991.6	990.9
12.5°	974.0	973.4	971.4	982.5	981.8
15°	957.8	958.4	958.4	971.4	971.4
17.5°	939.5	940.8	943.4	957.8	959.7
20°	918.1	920.7	925.9	942.1	944.7
22.5°	896.0	897.9	905.7	925.2	927.8
25°	868.6	873.8	884.2	906.4	910.3
27.5°	842.6	847.2	861.5	884.2	890.7
30°	812.0	819.2	836.1	860.8	868.0
32.5°	782.7	790.5	810.1	838.7	845.2
35°	747.6	759.3	784.0	812.7	820.5
37.5°	715.7	726.8	754.8	786.0	795.1
40°	680.6	694.2	726.1	759.3	768.4
42.5°	648.1	661.1	695.5	729.4	741.7
45°	609.0	627.2	663.0	700.1	713.1
47.5°	573.2	591.4	632.4	672.1	683.8
50°	537.4	557.0	599.9	640.9	652.6
52.5°	500.4	521.2	567.4	608.4	622.0
55°	461.3	485.4	533.5	575.2	587.5
57.5°	424.2	449.0	500.4	542.6	555.0
60°	387.8	413.2	465.9	506.2	519.2
62.5°	347.4	377.4	432.0	471.7	481.5
65°	311.0	341.6	394.9	434.6	445.7
67.5°	272.6	305.8	359.2	395.6	406.0
70°	236.2	270.7	322.1	355.9	360.5
72.5°	197.1	232.3	284.3	305.8	305.8
75°	162.0	197.8	245.9	249.9	246.6
77.5°	123.6	163.3	194.5	186.7	178.9
80°	89.1	128.2	142.5	128.2	117.8
82.5°	59.9	93.0	85.9	68.3	60.5
85°	33.2	49.4	33.8	18.9	13.7
87.5°	12.4	11.1	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)