

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: P307905

Luminaire Tested: **14FCZ2-29-UNV-L82765-S-CP125-W2A-U-5700K**

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: P307905
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-5700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5700K 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: 2884.0 lumens
Efficiency: N/A
Efficacy: 117.7 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

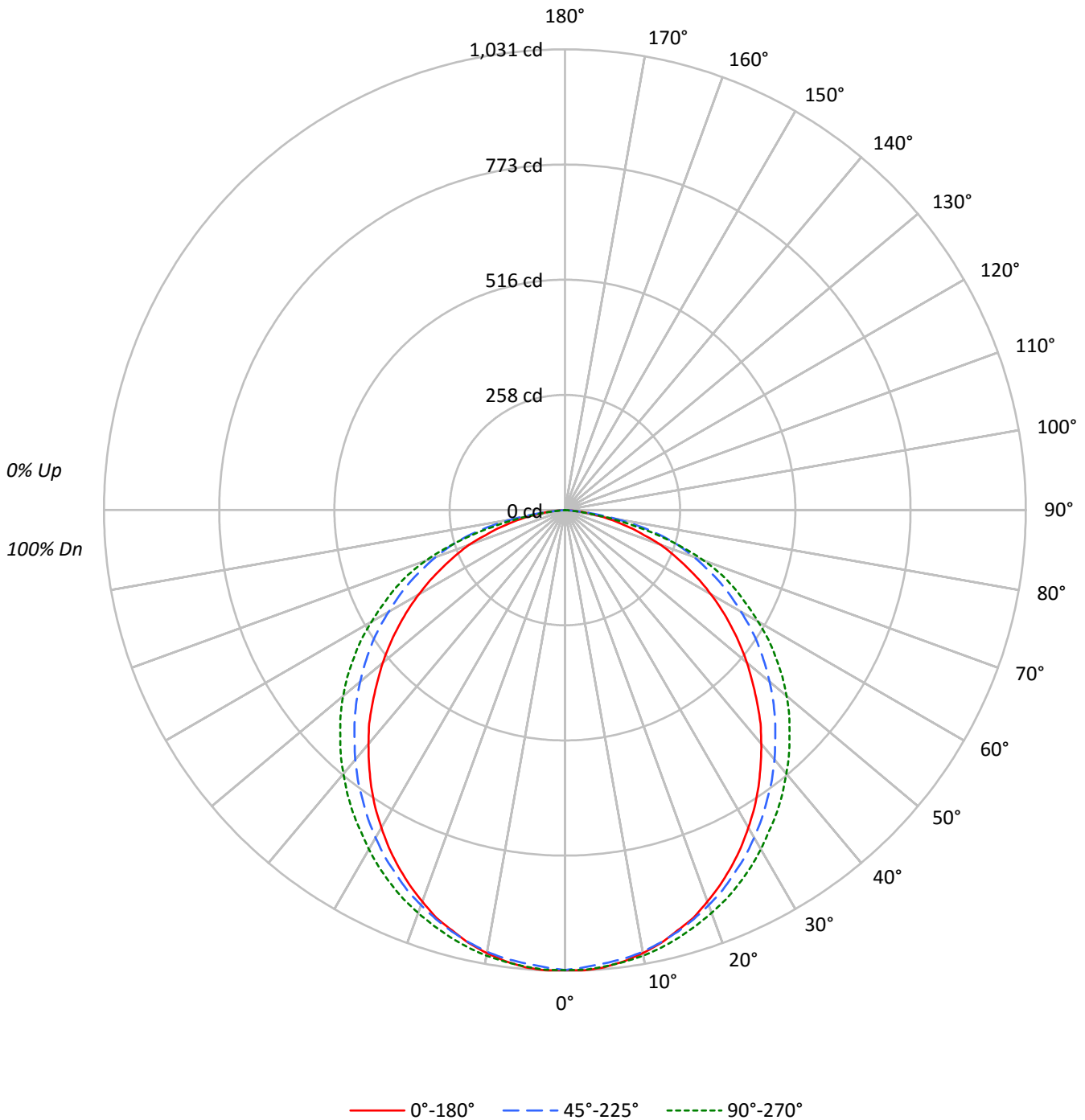
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2770	2770	2770
5°	2773	2750	2770
10°	2751	2743	2766
15°	2713	2721	2757
20°	2670	2694	2748
25°	2615	2662	2738
30°	2550	2630	2724
35°	2480	2593	2715
40°	2401	2562	2707
45°	2313	2530	2705
50°	2227	2502	2712
55°	2133	2482	2704
60°	2032	2447	2686
65°	1912	2440	2686
70°	1800	2419	2610
75°	1561	2364	2230
80°	1263	1906	1485
85°	840	661	442



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	3.4
10°-20°	276.6	9.6
20°-30°	415.0	14.4
30°-40°	495.0	17.2
40°-50°	511.8	17.7
50°-60°	467.2	16.2
60°-70°	367.7	12.7
70°-80°	214.0	7.4
80°-90°	39.4	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°	788.8	27.4
0°-40°	1283.9	44.5
0°-60°	2262.8	78.5
0°-90°	2884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2884.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1030	1030	1030	1030	1030	
5°	1027	1024	1018	1027	1025	97
15°	974	975	977	990	990	275
25°	881	885	897	918	922	406
35°	755	765	789	819	826	472
45°	608	628	665	702	711	469
55°	455	479	529	568	576	407
65°	300	332	383	413	422	298
75°	150	186	227	223	214	160
85°	27	39	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°	1029.5	1029.5	1029.5	1029.5	1029.5
2.5°	1031.0	1028.1	1023.8	1031.0	1029.5
5°	1026.7	1023.8	1018.1	1026.7	1025.3
7.5°	1018.1	1015.2	1012.4	1021.0	1019.5
10°	1006.7	1005.2	1003.8	1013.8	1012.4
12.5°	992.4	992.4	990.9	1002.4	1002.4
15°	973.8	975.2	976.6	989.5	989.5
17.5°	956.6	955.2	959.5	973.8	975.2
20°	932.3	935.2	940.9	958.0	959.5
22.5°	908.0	910.9	920.9	938.0	942.3
25°	880.8	885.1	896.6	918.0	922.3
27.5°	852.2	858.0	873.7	896.6	900.8
30°	820.8	829.4	846.5	872.2	876.5
32.5°	789.3	797.9	819.3	845.1	850.8
35°	755.0	765.0	789.3	819.3	826.5
37.5°	719.2	732.1	760.7	790.7	799.3
40°	683.5	697.8	729.3	760.7	770.7
42.5°	647.8	662.1	696.4	732.1	742.1
45°	607.7	627.7	664.9	702.1	710.7
47.5°	569.1	590.6	632.0	669.2	680.6
50°	531.9	553.4	597.7	636.3	647.8
52.5°	493.3	516.2	563.4	603.4	613.4
55°	454.7	479.0	529.1	567.7	576.3
57.5°	416.1	441.8	493.3	530.5	540.5
60°	377.5	404.7	454.7	491.9	499.0
62.5°	338.9	367.5	419.0	451.9	459.0
65°	300.3	331.7	383.2	413.2	421.8
67.5°	263.1	294.6	344.6	373.2	380.4
70°	228.8	257.4	307.4	328.9	331.7
72.5°	185.9	221.6	270.3	281.7	274.5
75°	150.1	185.9	227.4	223.1	214.5
77.5°	114.4	150.1	177.3	163.0	151.6
80°	81.5	117.3	123.0	101.5	95.8
82.5°	52.9	81.5	68.6	52.9	42.9
85°	27.2	38.6	21.4	17.2	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)