

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: P307635

Luminaire Tested: **14FCZ2-29-UNV-L82765-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: P307635
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-CP125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE,RIBBED 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: 2854.0 lumens
Efficiency: N/A
Efficacy: 116.5 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

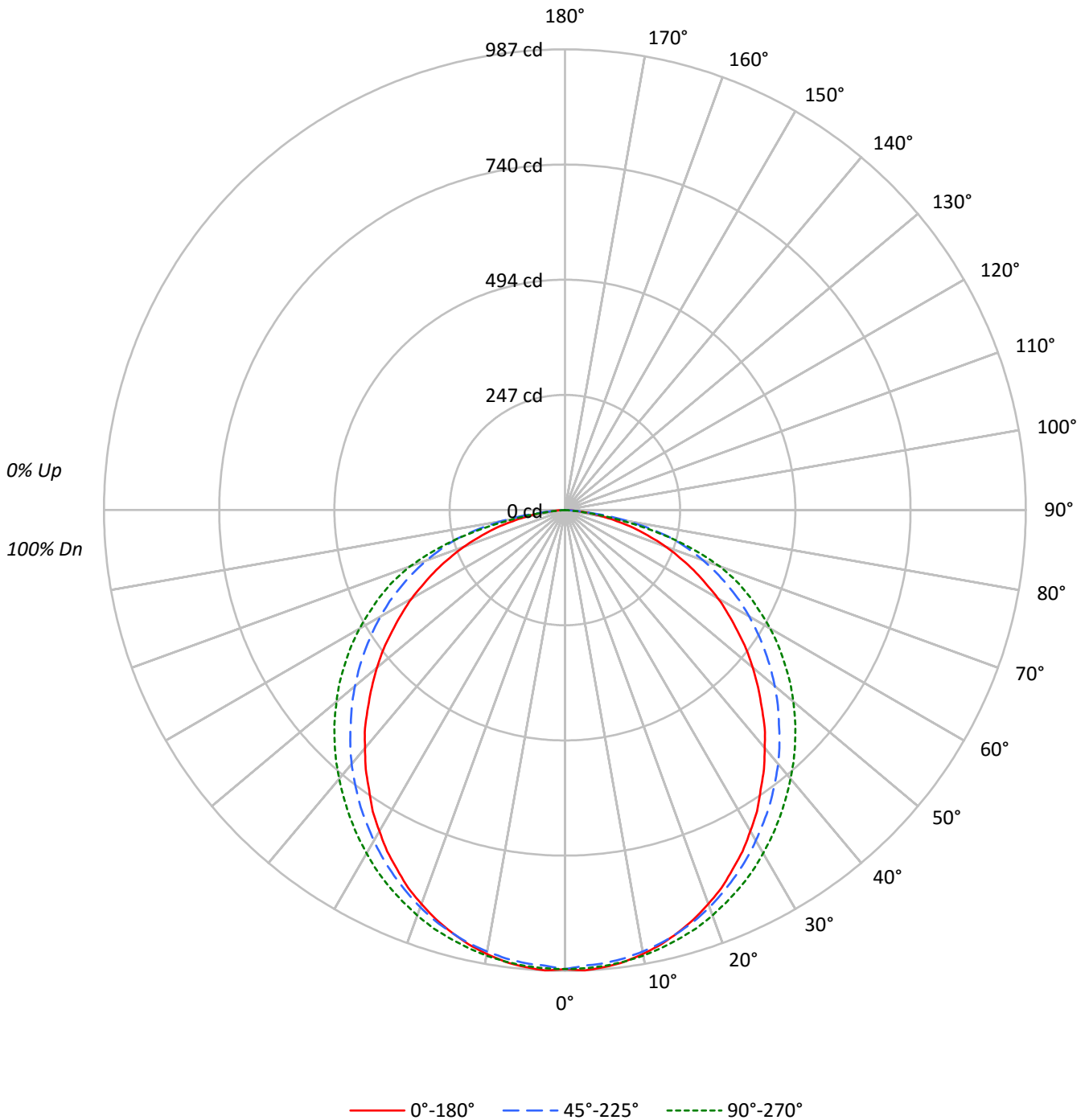
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2646	2646	2646
5°	2654	2632	2647
10°	2638	2624	2648
15°	2610	2612	2647
20°	2571	2593	2646
25°	2523	2568	2643
30°	2468	2541	2638
35°	2402	2519	2636
40°	2338	2495	2640
45°	2267	2468	2654
50°	2201	2456	2672
55°	2117	2448	2696
60°	2041	2453	2733
65°	1937	2460	2776
70°	1817	2478	2774
75°	1648	2502	2508
80°	1351	2160	1785
85°	1003	1022	414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	3.3
10°-20°	265.8	9.3
20°-30°	400.4	14.0
30°-40°	480.4	16.8
40°-50°	500.8	17.5
50°-60°	463.6	16.2
60°-70°	374.6	13.1
70°-80°	228.4	8.0
80°-90°	47.2	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°	759.2	26.6
0°-40°	1239.6	43.4
0°-60°	2203.9	77.2
0°-90°	2854.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2854.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	983	983	983	983	983	
5°	983	980	974	981	980	93
15°	937	937	937	950	950	264
25°	850	855	865	886	890	392
35°	731	743	767	795	802	458
45°	596	614	648	685	698	460
55°	451	475	522	563	575	404
65°	304	334	386	425	436	301
75°	158	194	241	244	241	166
85°	32	48	33	18	13	40
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.2	983.2	983.2	983.2	983.2
2.5°	987.0	983.8	976.8	983.8	982.6
5°	982.6	980.0	974.3	981.3	980.0
7.5°	976.2	973.7	968.6	976.8	975.6
10°	965.4	964.1	960.3	969.8	969.2
12.5°	952.7	952.0	950.1	960.9	960.3
15°	936.8	937.4	937.4	950.1	950.1
17.5°	918.9	920.2	922.8	936.8	938.7
20°	897.9	900.5	905.6	921.5	924.0
22.5°	876.3	878.2	885.8	904.9	907.5
25°	849.6	854.7	864.8	886.5	890.3
27.5°	824.1	828.6	842.6	864.8	871.2
30°	794.2	801.2	817.8	841.9	848.9
32.5°	765.6	773.2	792.3	820.3	826.7
35°	731.2	742.7	766.8	794.8	802.5
37.5°	700.0	710.8	738.2	768.8	777.7
40°	665.7	679.0	710.2	742.7	751.6
42.5°	633.8	646.6	680.3	713.4	725.5
45°	595.7	613.5	648.5	684.7	697.5
47.5°	560.7	578.5	618.6	657.4	668.8
50°	525.7	544.7	586.7	626.8	638.3
52.5°	489.4	509.7	554.9	595.0	608.4
55°	451.2	474.7	521.8	562.6	574.7
57.5°	414.9	439.1	489.4	530.7	542.8
60°	379.3	404.1	455.7	495.1	507.8
62.5°	339.8	369.1	422.6	461.4	470.9
65°	304.2	334.1	386.3	425.1	435.9
67.5°	266.6	299.1	351.3	386.9	397.1
70°	231.0	264.7	315.0	348.1	352.6
72.5°	192.8	227.2	278.1	299.1	299.1
75°	158.5	193.5	240.6	244.4	241.2
77.5°	120.9	159.7	190.3	182.6	175.0
80°	87.2	125.4	139.4	125.4	115.2
82.5°	58.5	91.0	84.0	66.8	59.2
85°	32.5	48.4	33.1	18.5	13.4
87.5°	12.1	10.8	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)