

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: P307128

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA125-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: P307128
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-18)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-4500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC 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: 2587.0 lumens
Efficiency: N/A
Efficacy: 85.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.39
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

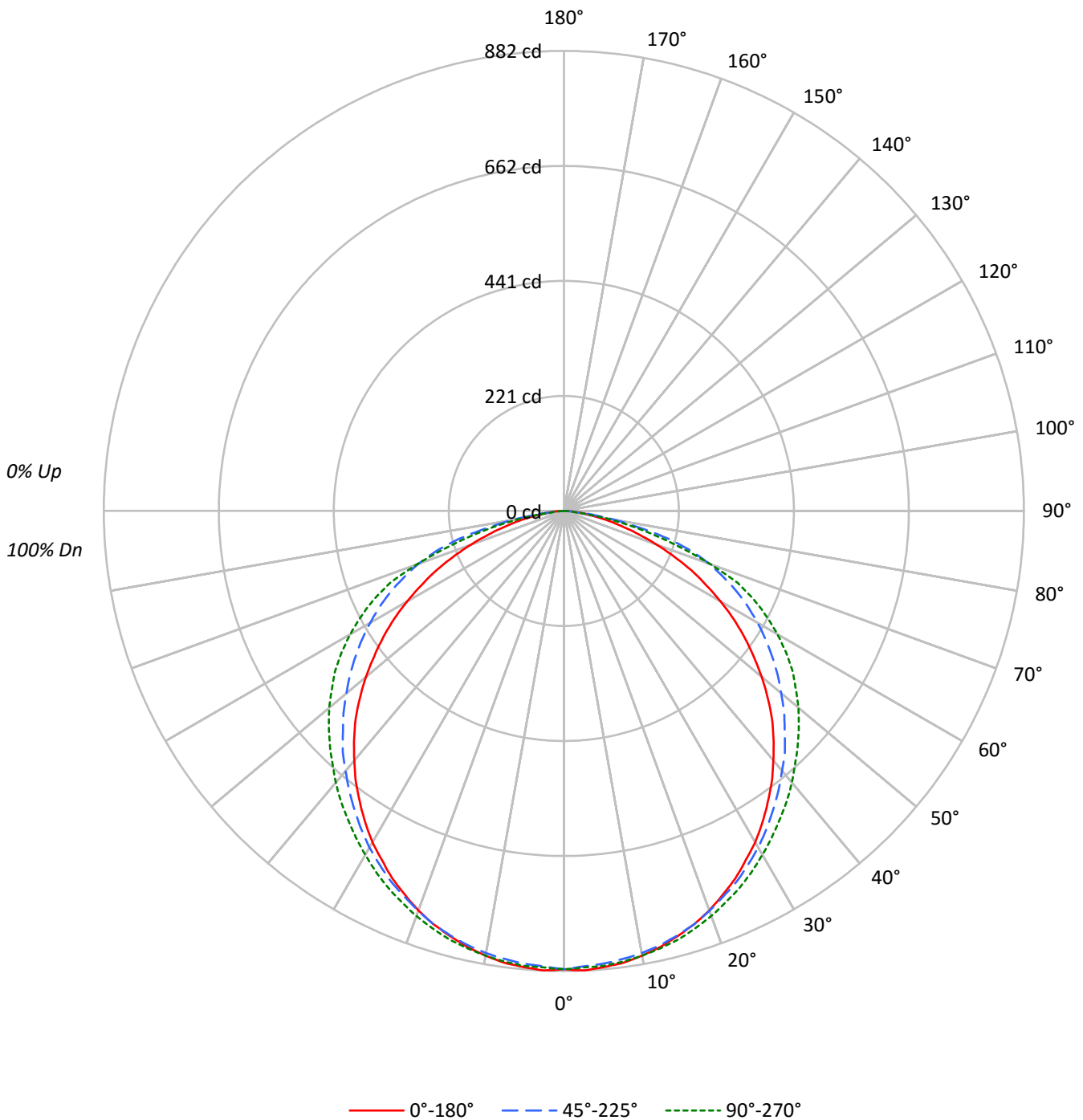
Input Watts (W): 30.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	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	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2364	2364	2364
5°	2371	2353	2364
10°	2365	2352	2365
15°	2350	2346	2368
20°	2334	2336	2367
25°	2309	2328	2367
30°	2280	2315	2366
35°	2239	2298	2371
40°	2195	2286	2389
45°	2149	2278	2415
50°	2074	2278	2459
55°	1985	2290	2511
60°	1865	2307	2544
65°	1720	2331	2559
70°	1498	2336	2356
75°	1235	2174	1903
80°	970	1564	1274
85°	753	602	303



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.2	3.2
10°-20°	238.7	9.2
20°-30°	362.4	14.0
30°-40°	439.2	17.0
40°-50°	462.8	17.9
50°-60°	432.0	16.7
60°-70°	345.3	13.3
70°-80°	190.0	7.3
80°-90°	33.5	1.3
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°	684.3	26.5
0°-40°	1123.4	43.4
0°-60°	2018.2	78.0
0°-90°	2587.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2587.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	879	879	879	879	879	
5°	878	875	871	877	875	83
15°	844	844	842	850	850	238
25°	778	779	784	796	797	358
35°	682	688	700	718	722	427
45°	565	575	599	626	634	434
55°	423	444	488	522	535	378
65°	270	304	366	396	402	266
75°	119	170	209	188	183	128
85°	24	31	20	12	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	878.6	878.6	878.6	878.6	878.6
2.5°	881.8	879.4	873.7	878.6	876.1
5°	877.7	875.3	871.2	876.9	875.3
7.5°	873.7	870.4	866.4	872.9	871.2
10°	865.5	863.1	860.7	866.4	865.5
12.5°	855.8	855.0	852.5	859.0	858.2
15°	843.6	843.6	842.0	850.1	850.1
17.5°	830.6	829.7	830.6	839.5	838.7
20°	815.1	815.1	815.9	826.5	826.5
22.5°	796.4	797.2	799.7	812.7	811.9
25°	777.7	779.3	784.2	795.6	797.2
27.5°	754.9	759.0	764.7	778.5	780.1
30°	733.8	736.2	745.1	758.2	761.4
32.5°	708.5	713.4	723.2	737.8	741.9
35°	681.7	688.2	699.6	717.5	721.6
37.5°	654.9	660.5	676.0	694.7	702.0
40°	624.8	634.5	650.8	671.9	680.1
42.5°	595.5	605.2	627.2	649.2	656.5
45°	564.6	575.1	598.7	625.6	634.5
47.5°	530.4	542.6	572.7	601.2	610.9
50°	495.4	510.9	544.2	575.9	587.3
52.5°	458.8	478.3	516.6	549.9	560.5
55°	423.0	444.2	488.1	522.3	535.3
57.5°	386.4	409.2	458.8	497.8	505.2
60°	346.5	374.2	428.7	462.9	472.6
62.5°	307.5	339.2	397.8	430.3	438.5
65°	270.1	304.2	366.1	396.2	401.9
67.5°	229.4	270.1	331.1	358.7	360.4
70°	190.4	237.5	296.9	309.9	299.4
72.5°	152.1	202.6	257.1	246.5	237.5
75°	118.8	170.0	209.1	187.9	183.0
77.5°	87.9	139.1	149.7	138.3	129.3
80°	62.6	109.8	100.9	86.2	82.2
82.5°	43.1	69.1	55.3	43.1	37.4
85°	24.4	30.9	19.5	12.2	9.8
87.5°	10.6	7.3	4.1	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)