

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: P307138

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CP125-W2A-U-5000K**

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: P307138
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-CP125-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5000K 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: 2571.0 lumens
Efficiency: N/A
Efficacy: 85.1 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

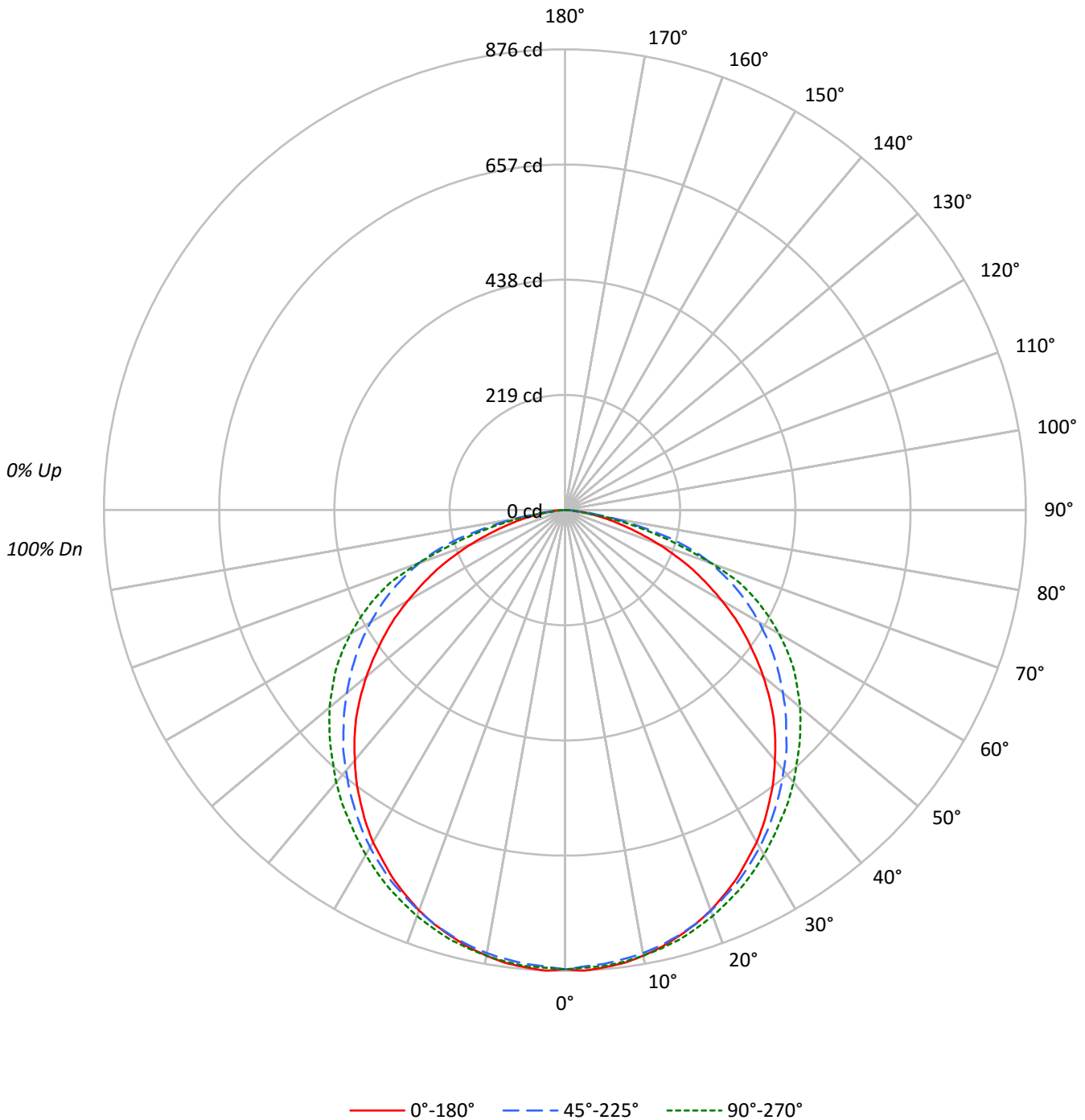
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2349	2349	2349
5°	2356	2339	2350
10°	2350	2337	2350
15°	2336	2331	2354
20°	2320	2322	2352
25°	2295	2314	2352
30°	2266	2301	2351
35°	2226	2284	2356
40°	2181	2272	2374
45°	2135	2264	2400
50°	2061	2264	2444
55°	1972	2276	2496
60°	1854	2293	2528
65°	1709	2316	2543
70°	1489	2322	2341
75°	1227	2161	1891
80°	965	1553	1266
85°	750	599	299



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.7	3.2
10°-20°	237.2	9.2
20°-30°	360.2	14.0
30°-40°	436.4	17.0
40°-50°	459.9	17.9
50°-60°	429.4	16.7
60°-70°	343.1	13.3
70°-80°	188.8	7.3
80°-90°	33.3	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°	680.0	26.5
0°-40°	1116.5	43.4
0°-60°	2005.8	78.0
0°-90°	2571.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2571.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	873	873	873	873	873	
5°	872	870	866	872	870	83
15°	838	838	837	845	845	237
25°	773	774	779	791	792	356
35°	678	684	695	713	717	424
45°	561	572	595	622	631	432
55°	420	441	485	519	532	375
65°	268	302	364	394	399	264
75°	118	169	208	187	182	127
85°	24	31	19	12	10	30
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	873.1	873.1	873.1	873.1	873.1
2.5°	876.4	873.9	868.3	873.1	870.7
5°	872.3	869.9	865.8	871.5	869.9
7.5°	868.3	865.0	861.0	867.5	865.8
10°	860.2	857.8	855.3	861.0	860.2
12.5°	850.5	849.7	847.3	853.7	852.9
15°	838.4	838.4	836.7	844.8	844.8
17.5°	825.4	824.6	825.4	834.3	833.5
20°	810.1	810.1	810.9	821.4	821.4
22.5°	791.5	792.3	794.7	807.6	806.8
25°	772.9	774.5	779.3	790.7	792.3
27.5°	750.2	754.3	759.9	773.7	775.3
30°	729.2	731.6	740.5	753.5	756.7
32.5°	704.2	709.0	718.7	733.3	737.3
35°	677.5	683.9	695.3	713.1	717.1
37.5°	650.8	656.5	671.8	690.4	697.7
40°	620.9	630.6	646.8	667.8	675.9
42.5°	591.8	601.5	623.3	645.1	652.4
45°	561.1	571.6	595.0	621.7	630.6
47.5°	527.1	539.2	569.1	597.4	607.1
50°	492.3	507.7	540.9	572.4	583.7
52.5°	456.0	475.4	513.4	546.5	557.0
55°	420.4	441.4	485.1	519.0	532.0
57.5°	384.0	406.6	456.0	494.8	502.0
60°	344.4	371.9	426.1	460.0	469.7
62.5°	305.6	337.1	395.3	427.7	435.8
65°	268.4	302.4	363.8	393.7	399.4
67.5°	228.0	268.4	329.0	356.5	358.1
70°	189.2	236.1	295.1	308.0	297.5
72.5°	151.2	201.3	255.5	245.0	236.1
75°	118.0	169.0	207.8	186.8	181.9
77.5°	87.3	138.2	148.8	137.4	128.5
80°	62.3	109.1	100.2	85.7	81.7
82.5°	42.8	68.7	55.0	42.8	37.2
85°	24.3	30.7	19.4	12.1	9.7
87.5°	10.5	7.3	4.0	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)