

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: P307121

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA08-W2A-U-5500K**

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: P307121
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-CA08-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.08" ACRYLIC SHEET
Light Source: (168) 5500K 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: 2657.0 lumens
Efficiency: N/A
Efficacy: 87.7 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

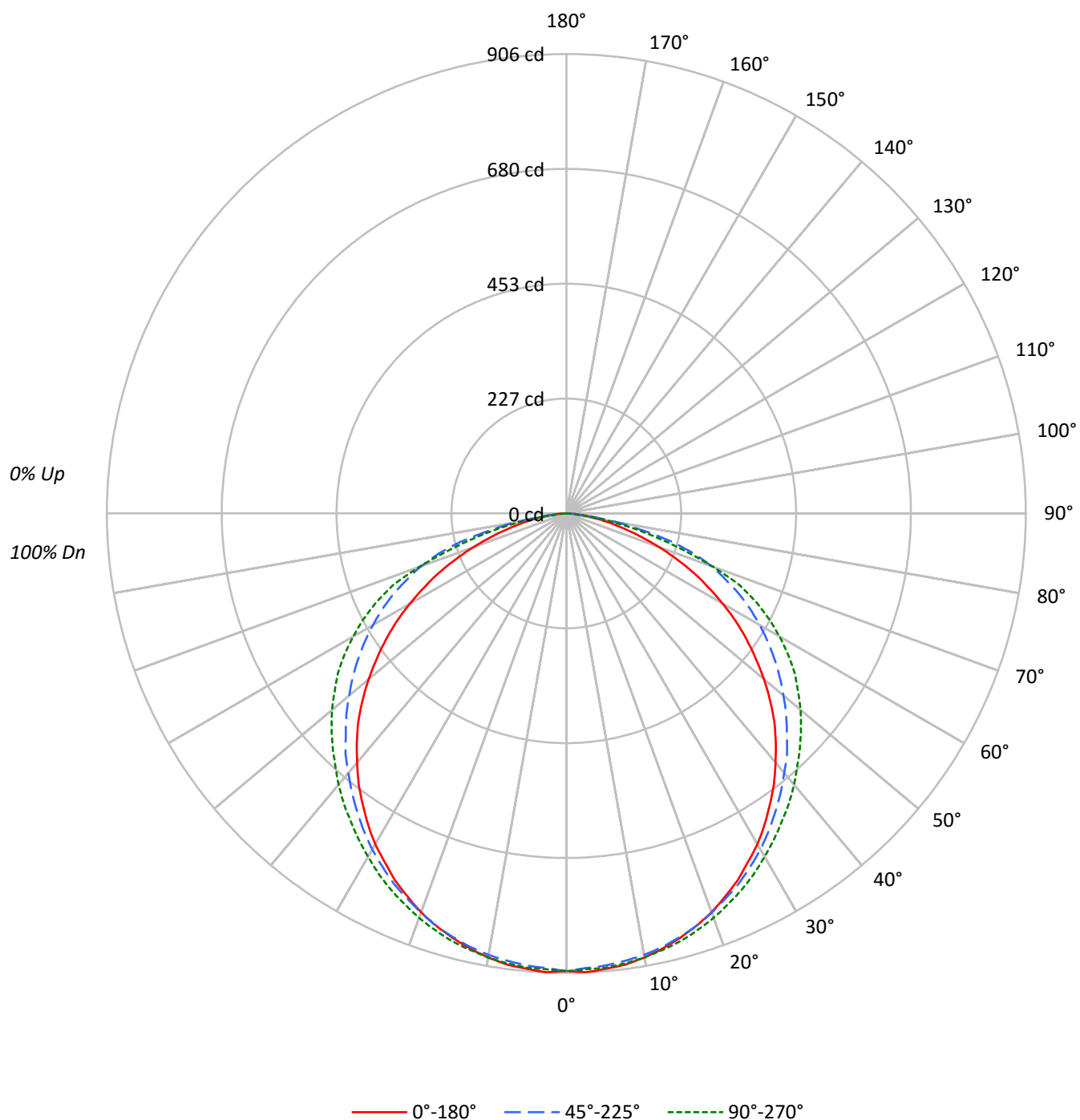
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	78	96	88	82	77	85	79	75		82	77	73		69
3	90	79	71	64	87	77	70	64	74	68	62		72	66	61		58
4	82	70	61	54	80	68	60	54	66	59	53		64	57	52		49
5	75	62	53	46	73	61	53	46	59	51	46		57	50	45		42
6	69	56	47	40	68	55	46	40	53	45	40		51	45	39		37
7	64	51	42	36	63	50	41	35	48	41	35		47	40	35		33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		29
9	56	42	34	28	54	42	34	28	41	33	28		39	33	28		26
10	52	39	31	26	51	38	31	26	37	30	26		37	30	25		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2428	2428	2428
5°	2435	2417	2428
10°	2429	2415	2429
15°	2414	2409	2432
20°	2397	2400	2431
25°	2371	2391	2431
30°	2342	2378	2430
35°	2300	2360	2435
40°	2254	2348	2454
45°	2206	2340	2480
50°	2130	2340	2525
55°	2038	2352	2579
60°	1915	2370	2612
65°	1766	2394	2628
70°	1538	2400	2419
75°	1268	2232	1955
80°	996	1605	1308
85°	775	621	309



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	3.2
10°-20°	245.1	9.2
20°-30°	372.3	14.0
30°-40°	451.0	17.0
40°-50°	475.3	17.9
50°-60°	443.7	16.7
60°-70°	354.6	13.3
70°-80°	195.1	7.3
80°-90°	34.4	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°	702.8	26.5
0°-40°	1153.8	43.4
0°-60°	2072.8	78.0
0°-90°	2657.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2657.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	902	902	902	902	902	
5°	902	899	895	901	899	86
15°	866	866	865	873	873	245
25°	799	800	805	817	819	368
35°	700	707	718	737	741	438
45°	580	591	615	642	652	446
55°	434	456	501	536	550	388
65°	277	312	376	407	413	273
75°	122	175	215	193	188	131
85°	25	32	20	12	10	31
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	902.3	902.3	902.3	902.3	902.3
2.5°	905.7	903.2	897.3	902.3	899.8
5°	901.5	899.0	894.8	900.7	899.0
7.5°	897.3	894.0	889.8	896.5	894.8
10°	889.0	886.5	883.9	889.8	889.0
12.5°	878.9	878.1	875.6	882.3	881.4
15°	866.4	866.4	864.7	873.1	873.1
17.5°	853.0	852.2	853.0	862.2	861.4
20°	837.2	837.2	838.0	848.9	848.9
22.5°	817.9	818.8	821.3	834.7	833.8
25°	798.7	800.4	805.4	817.1	818.8
27.5°	775.3	779.5	785.4	799.6	801.2
30°	753.6	756.1	765.3	778.7	782.0
32.5°	727.7	732.7	742.8	757.8	762.0
35°	700.1	706.8	718.5	736.9	741.1
37.5°	672.6	678.4	694.3	713.5	721.0
40°	641.7	651.7	668.4	690.1	698.5
42.5°	611.6	621.6	644.2	666.7	674.2
45°	579.8	590.7	614.9	642.5	651.7
47.5°	544.7	557.3	588.2	617.4	627.5
50°	508.8	524.7	558.9	591.5	603.2
52.5°	471.2	491.3	530.5	564.8	575.7
55°	434.5	456.2	501.3	536.4	549.8
57.5°	396.9	420.3	471.2	511.3	518.8
60°	355.9	384.3	440.3	475.4	485.4
62.5°	315.8	348.4	408.6	442.0	450.3
65°	277.4	312.5	376.0	406.9	412.7
67.5°	235.6	277.4	340.0	368.5	370.1
70°	195.5	244.0	305.0	318.3	307.5
72.5°	156.2	208.0	264.0	253.2	244.0
75°	122.0	174.6	214.7	193.0	188.0
77.5°	90.2	142.9	153.7	142.0	132.8
80°	64.3	112.8	103.6	88.6	84.4
82.5°	44.3	71.0	56.8	44.3	38.4
85°	25.1	31.7	20.1	12.5	10.0
87.5°	10.9	7.5	4.2	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)