

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: P307517

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CP250-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: P307517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-44-UNV-L82765-RDP-CP250-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB 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: 2574.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

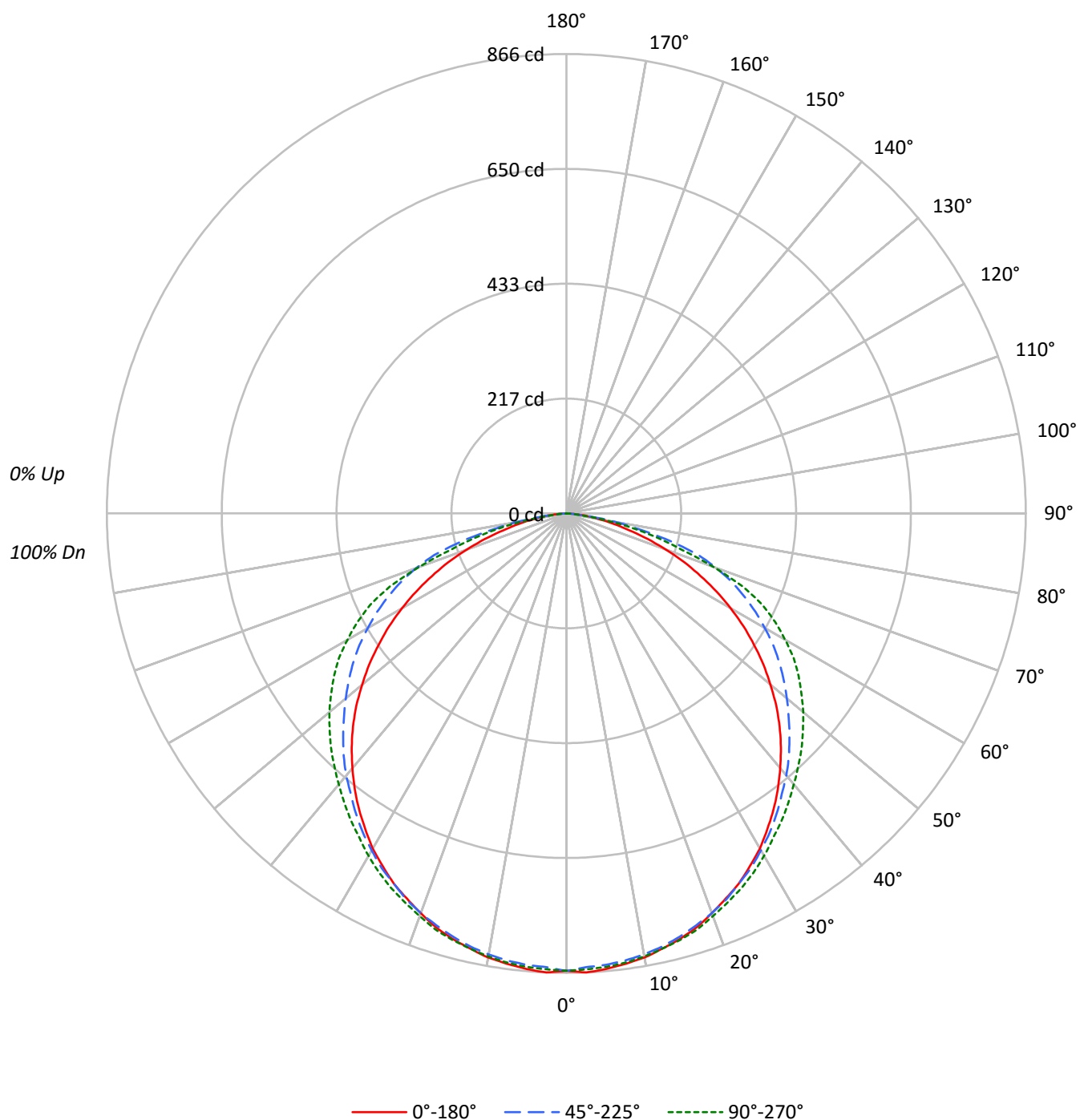
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307517

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CP250-W2A-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P307517

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CP250-W2A-U-5500K

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	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2320	2320	2320
5°	2329	2307	2318
10°	2323	2306	2317
15°	2312	2301	2318
20°	2296	2296	2313
25°	2285	2285	2315
30°	2267	2279	2316
35°	2238	2271	2324
40°	2203	2266	2344
45°	2164	2264	2386
50°	2103	2272	2440
55°	2027	2300	2508
60°	1925	2326	2563
65°	1778	2355	2597
70°	1581	2371	2324
75°	1275	2131	1860
80°	996	1495	1215
85°	682	435	309



TEST NUMBER: P307517

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CP250-W2A-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.6	3.2
10°-20°	234.1	9.1
20°-30°	356.5	13.8
30°-40°	434.2	16.9
40°-50°	460.6	17.9
50°-60°	434.8	16.9
60°-70°	351.0	13.6
70°-80°	190.4	7.4
80°-90°	30.8	1.2
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°	672.2	26.1
0°-40°	1106.4	43.0
0°-60°	2001.8	77.8
0°-90°	2574.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2574.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	862	862	862	862	862	
5°	862	860	854	860	858	82
15°	830	828	826	832	832	234
25°	770	768	770	778	780	354
35°	681	685	691	705	707	426
45°	569	577	595	617	627	438
55°	432	450	490	522	534	386
65°	279	314	370	400	408	277
75°	123	179	205	185	179	134
85°	22	24	14	12	10	28
90°	0	0	0	0	0	



TEST NUMBER: P307517

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CP250-W2A-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	862.1	862.1	862.1	862.1	862.1
2.5°	866.1	862.1	856.1	862.1	860.1
5°	862.1	860.1	854.1	860.1	858.1
7.5°	856.1	856.1	850.0	854.1	854.1
10°	850.0	848.0	844.0	850.0	848.0
12.5°	840.0	838.0	836.0	842.0	840.0
15°	829.9	827.9	825.9	832.0	832.0
17.5°	817.9	815.9	813.9	821.9	821.9
20°	801.8	801.8	801.8	809.8	807.8
22.5°	785.7	785.7	787.7	795.8	793.8
25°	769.7	767.6	769.7	777.7	779.7
27.5°	749.6	751.6	753.6	761.6	763.6
30°	729.5	731.5	733.5	743.5	745.5
32.5°	705.4	709.4	713.4	725.4	725.4
35°	681.2	685.3	691.3	705.4	707.4
37.5°	655.1	659.1	667.2	683.2	687.3
40°	627.0	633.0	645.1	661.1	667.2
42.5°	598.8	606.9	621.0	639.0	647.1
45°	568.7	576.7	594.8	616.9	627.0
47.5°	536.6	546.6	568.7	596.8	604.9
50°	502.4	516.5	542.6	572.7	582.8
52.5°	468.2	484.3	516.5	548.6	558.7
55°	432.1	450.1	490.3	522.5	534.5
57.5°	395.9	416.0	462.2	496.4	508.4
60°	357.7	381.8	432.1	466.2	476.3
62.5°	319.5	347.7	401.9	436.1	444.1
65°	279.3	313.5	369.8	399.9	407.9
67.5°	241.1	281.3	337.6	359.7	359.7
70°	201.0	245.2	301.4	307.5	295.4
72.5°	160.8	211.0	261.2	239.1	229.1
75°	122.6	178.9	205.0	184.9	178.9
77.5°	92.4	144.7	144.7	132.6	128.6
80°	64.3	110.5	96.5	84.4	78.4
82.5°	42.2	62.3	50.2	40.2	34.2
85°	22.1	24.1	14.1	12.1	10.0
87.5°	8.0	4.0	2.0	4.0	2.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)