

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: P307487

Luminaire Tested: **14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-4000K**

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: P307487
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-CA125-W2A-U-4000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 4000K 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: 2653.0 lumens
Efficiency: N/A
Efficacy: 68.6 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

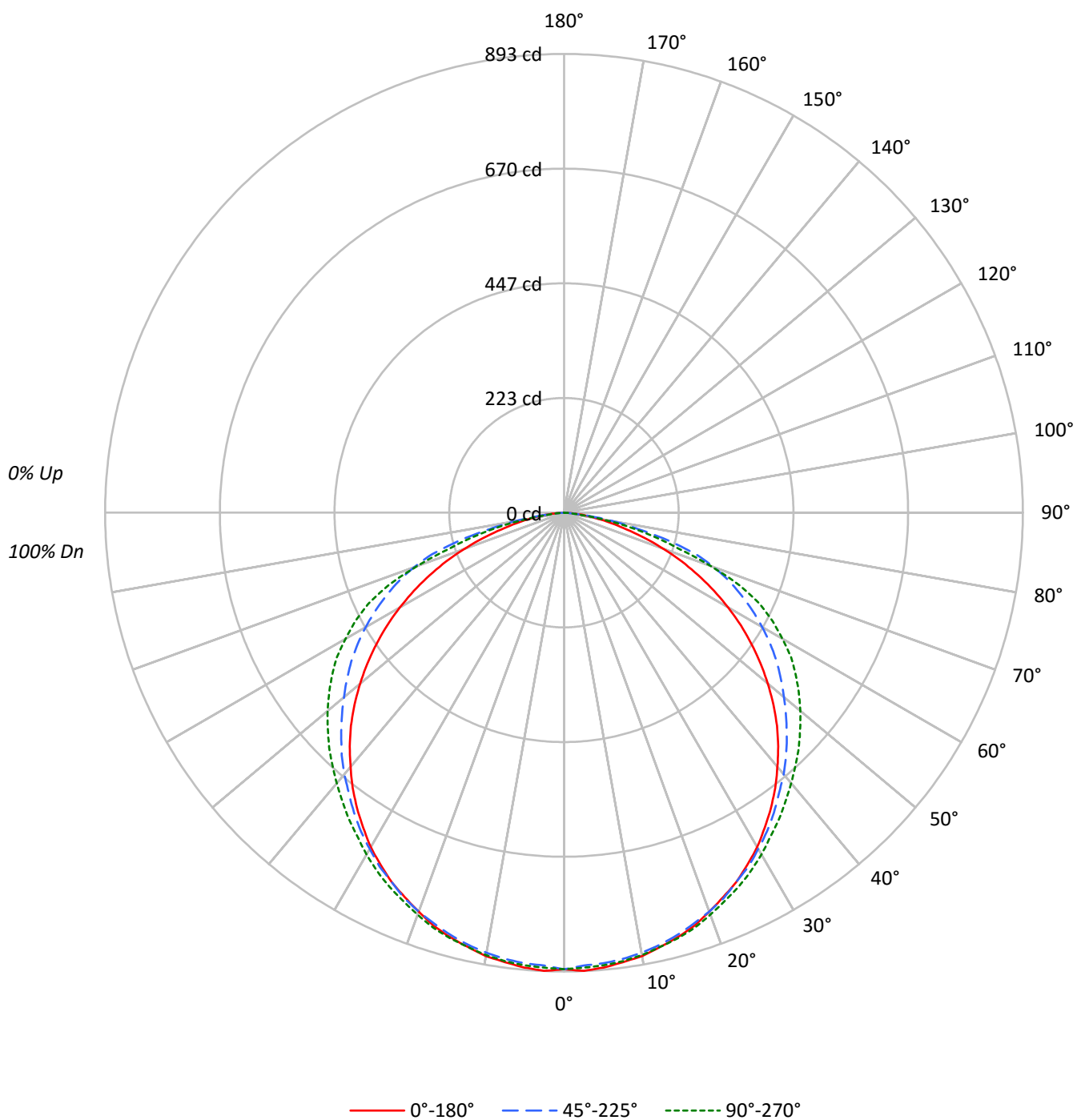
Input Watts (W): 38.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307487

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P307487

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-4000K

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°	2391	2391	2391
5°	2400	2378	2389
10°	2394	2377	2388
15°	2383	2372	2389
20°	2367	2367	2384
25°	2355	2355	2386
30°	2336	2349	2388
35°	2306	2341	2395
40°	2270	2336	2415
45°	2231	2333	2459
50°	2168	2341	2515
55°	2089	2371	2585
60°	1984	2397	2642
65°	1833	2427	2677
70°	1629	2445	2396
75°	1313	2197	1916
80°	1027	1540	1252
85°	704	448	321



TEST NUMBER: P307487

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	3.2
10°-20°	241.3	9.1
20°-30°	367.4	13.8
30°-40°	447.5	16.9
40°-50°	474.8	17.9
50°-60°	448.1	16.9
60°-70°	361.8	13.6
70°-80°	196.3	7.4
80°-90°	31.8	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°	692.8	26.1
0°-40°	1140.3	43.0
0°-60°	2063.2	77.8
0°-90°	2653.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2653.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	889	889	889	889	889	
5°	889	886	880	886	884	84
15°	855	853	851	858	858	241
25°	793	791	793	802	804	365
35°	702	706	712	727	729	439
45°	586	594	613	636	646	451
55°	445	464	505	538	551	398
65°	288	323	381	412	420	285
75°	126	184	211	191	184	138
85°	23	25	14	12	10	29
90°	0	0	0	0	0	



TEST NUMBER: P307487

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-RDP-CA125-W2A-U-4000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	888.6	888.6	888.6	888.6	888.6
2.5°	892.7	888.6	882.3	888.6	886.5
5°	888.6	886.5	880.3	886.5	884.4
7.5°	882.3	882.3	876.1	880.3	880.3
10°	876.1	874.1	869.9	876.1	874.1
12.5°	865.8	863.7	861.6	867.8	865.8
15°	855.4	853.3	851.3	857.5	857.5
17.5°	843.0	840.9	838.8	847.1	847.1
20°	826.4	826.4	826.4	834.7	832.6
22.5°	809.9	809.9	811.9	820.2	818.1
25°	793.3	791.2	793.3	801.6	803.6
27.5°	772.6	774.6	776.7	785.0	787.1
30°	751.9	753.9	756.0	766.4	768.4
32.5°	727.0	731.1	735.3	747.7	747.7
35°	702.1	706.3	712.5	727.0	729.1
37.5°	675.2	679.4	687.6	704.2	708.4
40°	646.2	652.4	664.9	681.4	687.6
42.5°	617.2	625.5	640.0	658.7	666.9
45°	586.2	594.4	613.1	635.9	646.2
47.5°	553.0	563.4	586.2	615.2	623.4
50°	517.8	532.3	559.2	590.3	600.7
52.5°	482.6	499.2	532.3	565.4	575.8
55°	445.3	464.0	505.4	538.5	550.9
57.5°	408.0	428.7	476.4	511.6	524.0
60°	368.7	393.5	445.3	480.5	490.9
62.5°	329.3	358.3	414.2	449.5	457.7
65°	287.9	323.1	381.1	412.2	420.5
67.5°	248.5	290.0	348.0	370.8	370.8
70°	207.1	252.7	310.7	316.9	304.5
72.5°	165.7	217.5	269.3	246.5	236.1
75°	126.3	184.3	211.3	190.6	184.3
77.5°	95.3	149.1	149.1	136.7	132.6
80°	66.3	113.9	99.4	87.0	80.8
82.5°	43.5	64.2	51.8	41.4	35.2
85°	22.8	24.9	14.5	12.4	10.4
87.5°	8.3	4.1	2.1	4.1	2.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)