

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: P307183

Luminaire Tested: **14FCZ2-39-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: P307183
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: 14FCZ2-39-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: 2837.0 lumens
Efficiency: N/A
Efficacy: 83.2 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

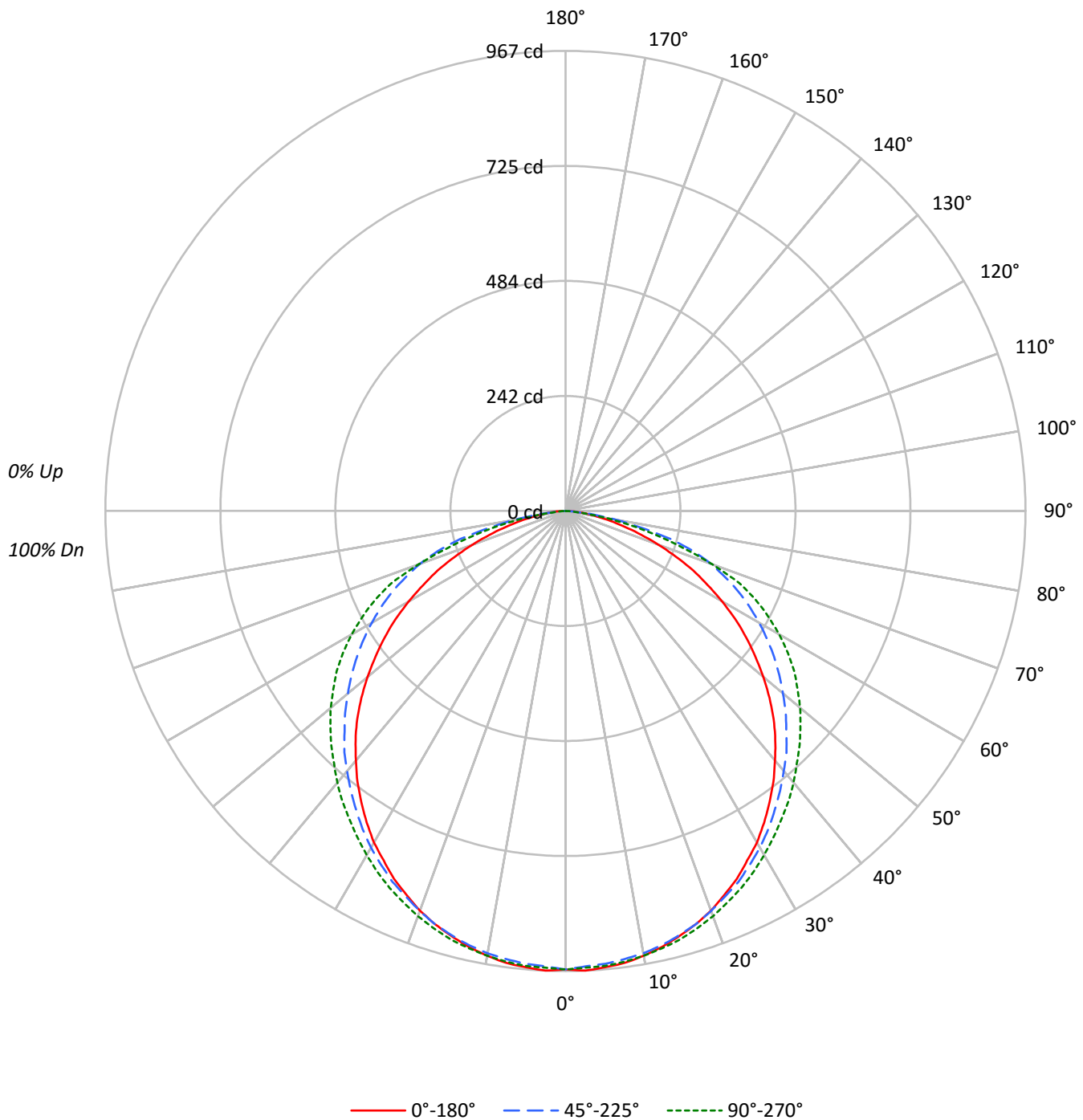
Input Watts (W): 34.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307183

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CP125-W2A-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P307183

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CP125-W2A-U-5000K

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°	2593	2593	2593
5°	2600	2581	2593
10°	2594	2579	2594
15°	2577	2572	2597
20°	2560	2562	2596
25°	2532	2553	2596
30°	2500	2539	2595
35°	2456	2520	2599
40°	2407	2507	2620
45°	2356	2499	2648
50°	2274	2498	2696
55°	2176	2511	2754
60°	2045	2530	2789
65°	1886	2556	2806
70°	1642	2562	2583
75°	1354	2384	2087
80°	1065	1714	1396
85°	827	661	330



TEST NUMBER: P307183

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CP125-W2A-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	3.2
10°-20°	261.7	9.2
20°-30°	397.5	14.0
30°-40°	481.6	17.0
40°-50°	507.5	17.9
50°-60°	473.8	16.7
60°-70°	378.6	13.3
70°-80°	208.3	7.3
80°-90°	36.8	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°	750.4	26.5
0°-40°	1232.0	43.4
0°-60°	2213.3	78.0
0°-90°	2837.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2837.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	964	964	964	964	964	
5°	963	960	955	962	960	92
15°	925	925	923	932	932	261
25°	853	855	860	872	874	393
35°	748	755	767	787	791	468
45°	619	631	657	686	696	476
55°	464	487	535	573	587	414
65°	296	334	401	434	441	292
75°	130	186	229	206	201	140
85°	27	34	21	13	11	33
90°	0	0	0	0	0	



TEST NUMBER: P307183

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CP125-W2A-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	963.5	963.5	963.5	963.5	963.5
2.5°	967.0	964.4	958.1	963.5	960.8
5°	962.6	959.9	955.4	961.7	959.9
7.5°	958.1	954.5	950.1	957.2	955.4
10°	949.2	946.5	943.8	950.1	949.2
12.5°	938.5	937.6	934.9	942.0	941.2
15°	925.1	925.1	923.3	932.2	932.2
17.5°	910.8	909.9	910.8	920.6	919.7
20°	893.9	893.9	894.8	906.4	906.4
22.5°	873.4	874.3	876.9	891.2	890.3
25°	852.8	854.6	860.0	872.5	874.3
27.5°	827.9	832.3	838.6	853.7	855.5
30°	804.7	807.3	817.2	831.4	835.0
32.5°	777.0	782.4	793.1	809.1	813.6
35°	747.6	754.7	767.2	786.8	791.3
37.5°	718.1	724.4	741.3	761.8	769.9
40°	685.1	695.8	713.7	736.9	745.8
42.5°	653.0	663.7	687.8	711.9	719.9
45°	619.1	630.7	656.6	686.0	695.8
47.5°	581.6	595.0	628.0	659.3	670.0
50°	543.3	560.2	596.8	631.6	644.1
52.5°	503.1	524.6	566.5	603.1	614.7
55°	463.9	487.1	535.3	572.7	587.0
57.5°	423.7	448.7	503.1	546.0	554.0
60°	380.0	410.4	470.1	507.6	518.3
62.5°	337.2	372.0	436.2	471.9	480.8
65°	296.2	333.6	401.4	434.4	440.7
67.5°	251.6	296.2	363.1	393.4	395.2
70°	208.7	260.5	325.6	339.9	328.3
72.5°	166.8	222.1	281.9	270.3	260.5
75°	130.2	186.4	229.3	206.1	200.7
77.5°	96.3	152.5	164.1	151.7	141.8
80°	68.7	120.4	110.6	94.6	90.1
82.5°	47.3	75.8	60.7	47.3	41.0
85°	26.8	33.9	21.4	13.4	10.7
87.5°	11.6	8.0	4.5	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)