

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: P307175

Luminaire Tested: **14FCZ2-39-UNV-L82765-HRP-CA125-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: P307175
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-CA125-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" 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: 2922.0 lumens
Efficiency: N/A
Efficacy: 85.4 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

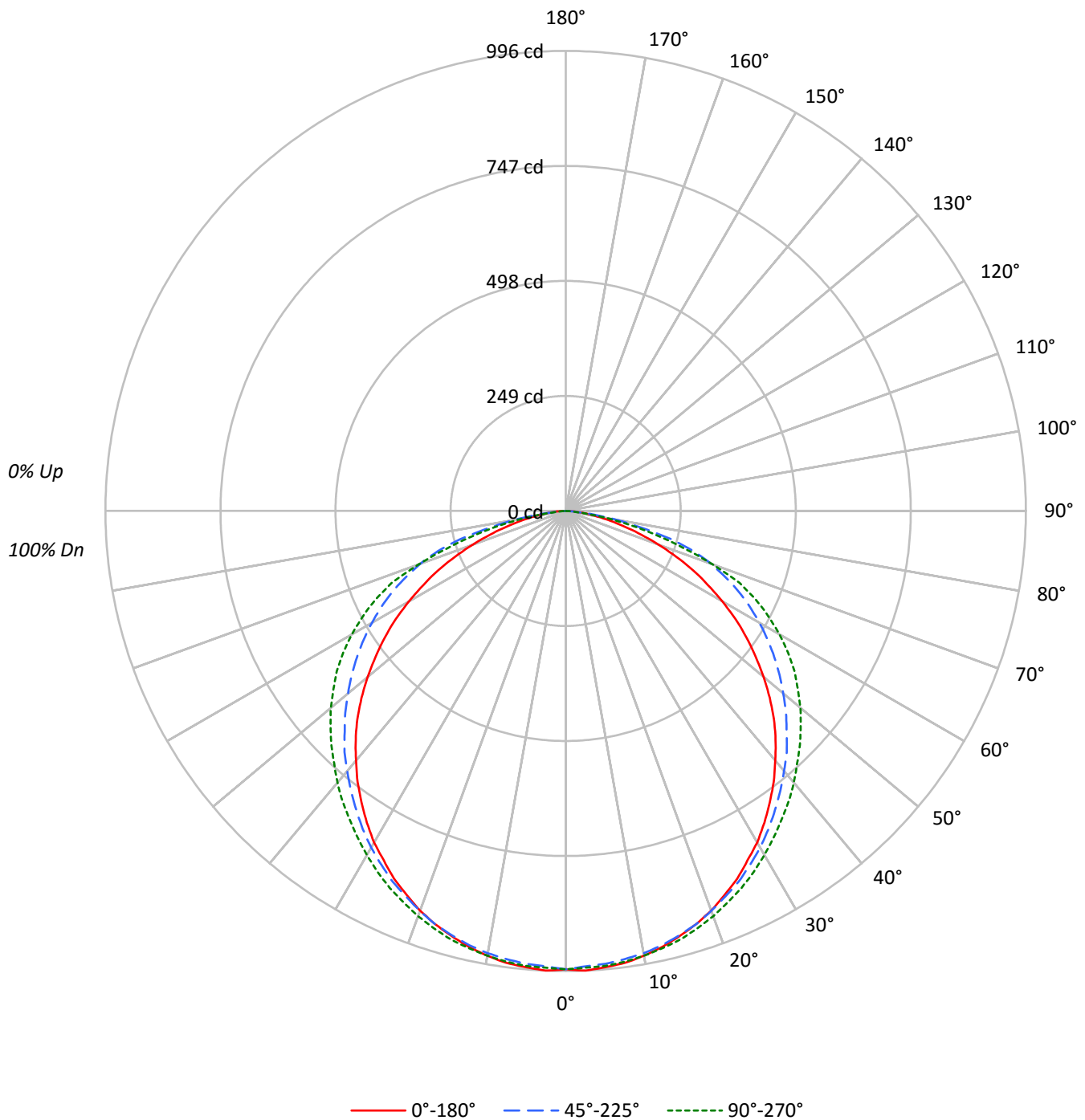
Input Watts (W): 34.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307175

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CA125-W2A-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P307175

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CA125-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	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°	2670	2670	2670
5°	2678	2658	2671
10°	2671	2656	2671
15°	2654	2649	2675
20°	2637	2639	2673
25°	2608	2630	2673
30°	2575	2615	2672
35°	2530	2596	2677
40°	2479	2582	2698
45°	2427	2574	2727
50°	2343	2573	2777
55°	2242	2586	2837
60°	2106	2606	2873
65°	1942	2633	2890
70°	1692	2639	2660
75°	1394	2455	2149
80°	1096	1765	1438
85°	852	682	340



TEST NUMBER: P307175

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CA125-W2A-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.9	3.2
10°-20°	269.6	9.2
20°-30°	409.4	14.0
30°-40°	496.0	17.0
40°-50°	522.7	17.9
50°-60°	488.0	16.7
60°-70°	390.0	13.3
70°-80°	214.6	7.3
80°-90°	37.9	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°	772.9	26.5
0°-40°	1268.9	43.4
0°-60°	2279.6	78.0
0°-90°	2922.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2922.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	992	992	992	992	992	
5°	991	989	984	990	989	94
15°	953	953	951	960	960	269
25°	878	880	886	899	900	404
35°	770	777	790	810	815	482
45°	638	650	676	707	717	491
55°	478	502	551	590	605	426
65°	305	344	414	448	454	300
75°	134	192	236	212	207	144
85°	28	35	22	14	11	34
90°	0	0	0	0	0	



TEST NUMBER: P307175

CATALOG NUMBER: 14FCZ2-39-UNV-L82765-HRP-CA125-W2A-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	992.3	992.3	992.3	992.3	992.3
2.5°	996.0	993.2	986.8	992.3	989.6
5°	991.4	988.7	984.1	990.5	988.7
7.5°	986.8	983.1	978.5	985.9	984.1
10°	977.6	974.9	972.1	978.5	977.6
12.5°	966.6	965.7	962.9	970.3	969.4
15°	952.8	952.8	951.0	960.2	960.2
17.5°	938.1	937.2	938.1	948.2	947.3
20°	920.7	920.7	921.6	933.5	933.5
22.5°	899.5	900.4	903.2	917.9	917.0
25°	878.4	880.2	885.7	898.6	900.4
27.5°	852.7	857.3	863.7	879.3	881.1
30°	828.8	831.5	841.6	856.3	860.0
32.5°	800.3	805.8	816.8	833.4	838.0
35°	770.0	777.3	790.2	810.4	815.0
37.5°	739.7	746.1	763.5	784.7	792.9
40°	705.7	716.7	735.1	758.9	768.1
42.5°	672.6	683.6	708.4	733.2	741.5
45°	637.7	649.6	676.3	706.6	716.7
47.5°	599.1	612.9	646.8	679.0	690.0
50°	559.6	577.0	614.7	650.5	663.4
52.5°	518.2	540.3	583.5	621.1	633.1
55°	477.8	501.7	551.3	589.9	604.6
57.5°	436.4	462.2	518.2	562.3	570.6
60°	391.4	422.7	484.2	522.8	533.8
62.5°	347.3	383.1	449.3	486.1	495.2
65°	305.0	343.6	413.5	447.5	453.9
67.5°	259.1	305.0	374.0	405.2	407.0
70°	215.0	268.3	335.4	350.1	338.1
72.5°	171.8	228.8	290.3	278.4	268.3
75°	134.1	192.0	236.1	212.2	206.7
77.5°	99.2	157.1	169.1	156.2	146.1
80°	70.7	124.0	113.9	97.4	92.8
82.5°	48.7	78.1	62.5	48.7	42.3
85°	27.6	34.9	22.1	13.8	11.0
87.5°	11.9	8.3	4.6	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)