

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: P307246

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP250-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: P307246
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: 14FCZ2-44-UNV-L82765-HRP-CP250-W2A-U-5000K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.250"
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: 3012.0 lumens
Efficiency: N/A
Efficacy: 76.8 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

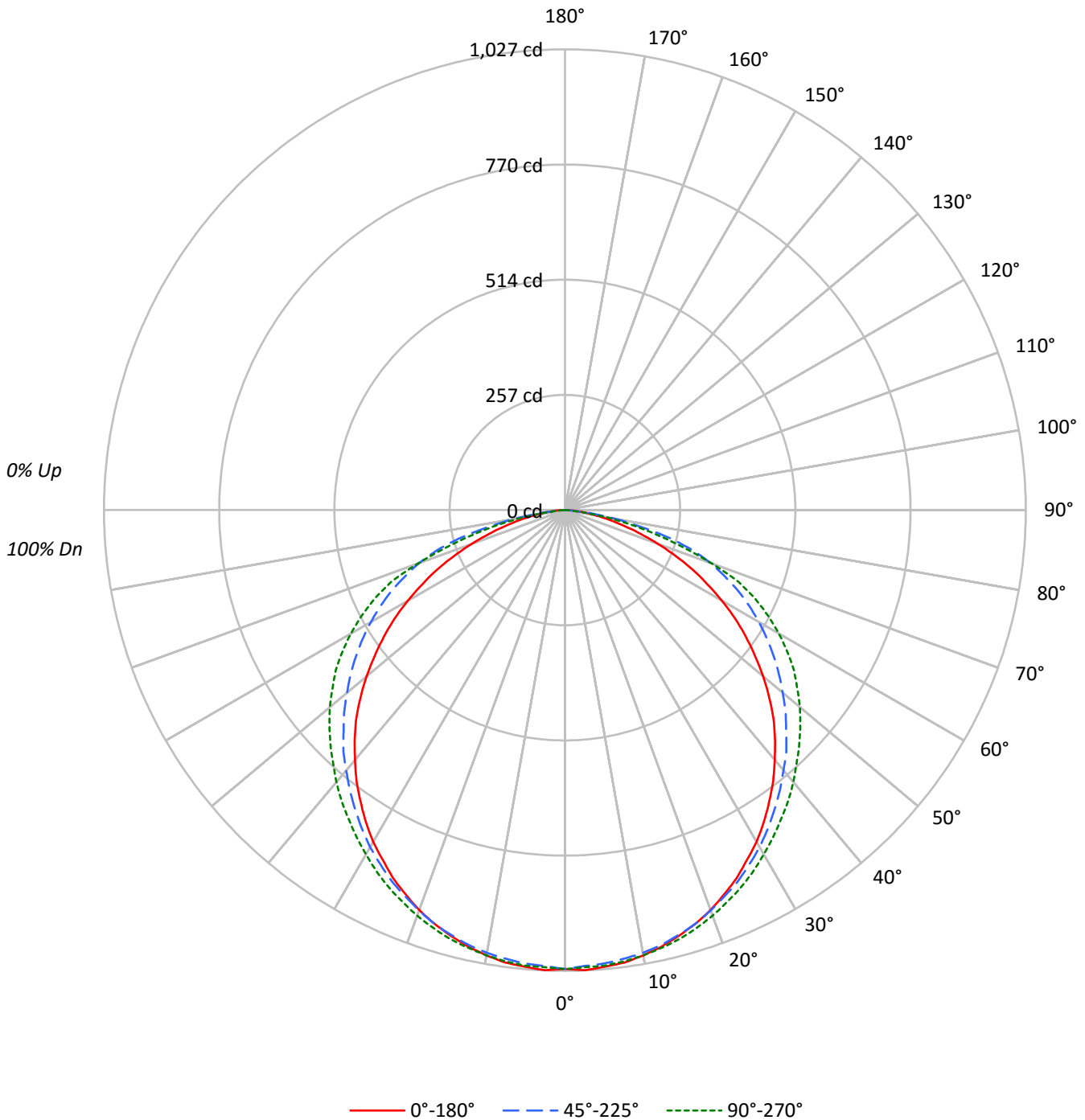
Input Watts (W): 39.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307246

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-HRP-CP250-W2A-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P307246

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-HRP-CP250-W2A-U-5000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	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	102	102	102	100
1	109	104	100	96	106	102	98	94	97	94	91	93	91	88	90	88	86	84
2	99	90	83	78	96	88	82	77	85	79	75	82	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	64	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	69	56	47	40	68	55	46	40	53	45	40	51	45	39	50	44	39	37
7	64	51	42	36	63	50	41	35	48	41	35	47	40	35	45	39	35	33
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	38	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2753	2753	2753
5°	2760	2740	2753
10°	2754	2738	2754
15°	2736	2731	2757
20°	2718	2720	2756
25°	2688	2711	2756
30°	2655	2696	2755
35°	2607	2676	2760
40°	2555	2662	2781
45°	2501	2653	2812
50°	2415	2653	2863
55°	2311	2666	2924
60°	2172	2686	2962
65°	2002	2714	2979
70°	1744	2720	2742
75°	1438	2531	2216
80°	1130	1819	1483
85°	877	701	352



TEST NUMBER: P307246

CATALOG NUMBER: 14FCZ2-44-UNV-L82765-HRP-CP250-W2A-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.8	3.2
10°-20°	277.9	9.2
20°-30°	422.0	14.0
30°-40°	511.3	17.0
40°-50°	538.8	17.9
50°-60°	503.0	16.7
60°-70°	402.0	13.3
70°-80°	221.2	7.3
80°-90°	39.1	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°	796.7	26.5
0°-40°	1308.0	43.4
0°-60°	2349.8	78.0
0°-90°	3012.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3012.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1023	1023	1023	1023	1023	
5°	1022	1019	1014	1021	1019	97
15°	982	982	980	990	990	277
25°	905	907	913	926	928	417
35°	794	801	814	835	840	497
45°	657	670	697	728	739	506
55°	492	517	568	608	623	440
65°	314	354	426	461	468	310
75°	138	198	243	219	213	149
85°	28	36	23	14	11	35
90°	0	0	0	0	0	



TEST NUMBER: P307246

CATALOG NUMBER: 14FC22-44-UNV-L82765-HRP-CP250-W2A-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1022.9	1022.9	1022.9	1022.9	1022.9
2.5°	1026.7	1023.8	1017.2	1022.9	1020.0
5°	1021.9	1019.1	1014.4	1021.0	1019.1
7.5°	1017.2	1013.4	1008.7	1016.3	1014.4
10°	1007.7	1004.9	1002.1	1008.7	1007.7
12.5°	996.4	995.4	992.6	1000.2	999.2
15°	982.2	982.2	980.3	989.7	989.7
17.5°	967.0	966.1	967.0	977.4	976.5
20°	949.0	949.0	950.0	962.3	962.3
22.5°	927.2	928.2	931.0	946.2	945.2
25°	905.4	907.3	913.0	926.3	928.2
27.5°	878.9	883.7	890.3	906.4	908.3
30°	854.3	857.1	867.6	882.7	886.5
32.5°	824.9	830.6	842.0	859.0	863.8
35°	793.7	801.3	814.5	835.4	840.1
37.5°	762.4	769.1	787.1	808.8	817.4
40°	727.4	738.8	757.7	782.3	791.8
42.5°	693.3	704.7	730.2	755.8	764.3
45°	657.3	669.6	697.1	728.3	738.8
47.5°	617.5	631.7	666.8	699.9	711.3
50°	576.8	594.8	633.6	670.6	683.8
52.5°	534.2	556.9	601.4	640.3	652.6
55°	492.5	517.1	568.3	608.1	623.2
57.5°	449.9	476.4	534.2	579.6	588.2
60°	403.5	435.7	499.1	538.9	550.3
62.5°	358.0	394.9	463.1	501.0	510.5
65°	314.4	354.2	426.2	461.2	467.9
67.5°	267.1	314.4	385.5	417.7	419.6
70°	221.6	276.6	345.7	360.9	348.5
72.5°	177.1	235.8	299.3	287.0	276.6
75°	138.3	197.9	243.4	218.8	213.1
77.5°	102.3	162.0	174.3	161.0	150.6
80°	72.9	127.9	117.4	100.4	95.7
82.5°	50.2	80.5	64.4	50.2	43.6
85°	28.4	36.0	22.7	14.2	11.4
87.5°	12.3	8.5	4.7	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)