

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: P307934

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K**

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: P307934
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" ACRYLIC SHEET
Light Source: (168) 2700K 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: 3113.0 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

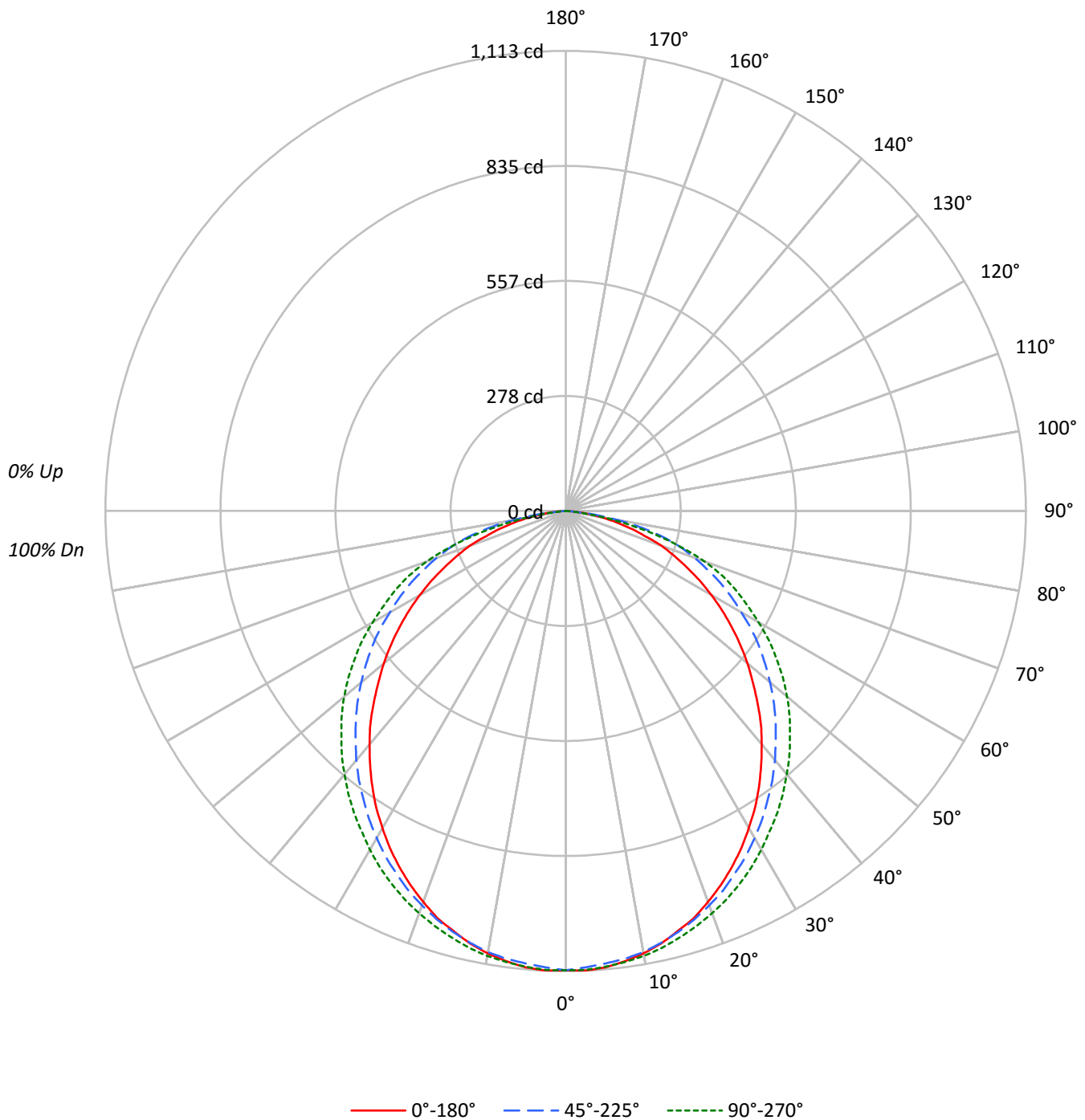
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307934

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P307934

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K

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		94	91	89		84
2	99	90	84	78	96	89	82	77	85	80	75		82	77	73		70
3	90	79	71	65	87	78	70	64	75	68	63		72	66	62		58
4	82	70	61	55	80	69	61	54	66	59	53		64	58	53		50
5	76	63	54	47	74	62	53	47	59	52	46		57	51	46		43
6	70	56	47	41	68	55	47	41	54	46	40		52	45	40		38
7	65	51	42	36	63	50	42	36	49	41	36		47	41	35		33
8	60	47	38	32	59	46	38	32	45	37	32		43	37	32		30
9	56	43	35	29	55	42	34	29	41	34	29		40	33	29		27
10	53	40	32	26	52	39	31	26	38	31	26		37	31	26		24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2990	2990	2990
5°	2994	2968	2989
10°	2969	2961	2986
15°	2928	2937	2976
20°	2882	2908	2966
25°	2823	2873	2956
30°	2753	2839	2940
35°	2677	2799	2931
40°	2592	2765	2922
45°	2496	2731	2919
50°	2404	2701	2927
55°	2303	2679	2918
60°	2193	2641	2899
65°	2064	2634	2899
70°	1943	2611	2817
75°	1685	2551	2407
80°	1364	2056	1602
85°	905	716	475



TEST NUMBER: P307934

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.4
10°-20°	298.6	9.6
20°-30°	447.9	14.4
30°-40°	534.3	17.2
40°-50°	552.4	17.7
50°-60°	504.3	16.2
60°-70°	396.9	12.7
70°-80°	231.0	7.4
80°-90°	42.6	1.4
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°	851.5	27.4
0°-40°	1385.8	44.5
0°-60°	2442.5	78.5
0°-90°	3113.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3113.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1111	1111	1111	1111	1111	
5°	1108	1105	1099	1108	1107	105
15°	1051	1053	1054	1068	1068	297
25°	951	955	968	991	996	438
35°	815	826	852	884	892	509
45°	656	678	718	758	767	507
55°	491	517	571	613	622	439
65°	324	358	414	446	455	322
75°	162	201	245	241	232	172
85°	29	42	23	18	15	38
90°	0	0	0	0	0	



TEST NUMBER: P307934

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CA125-W2A-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1111.3	1111.3	1111.3	1111.3	1111.3
2.5°	1112.8	1109.7	1105.1	1112.8	1111.3
5°	1108.2	1105.1	1098.9	1108.2	1106.7
7.5°	1098.9	1095.9	1092.8	1102.0	1100.5
10°	1086.6	1085.1	1083.5	1094.3	1092.8
12.5°	1071.2	1071.2	1069.6	1082.0	1082.0
15°	1051.1	1052.6	1054.2	1068.1	1068.1
17.5°	1032.6	1031.0	1035.7	1051.1	1052.6
20°	1006.3	1009.4	1015.6	1034.1	1035.7
22.5°	980.1	983.2	994.0	1012.5	1017.1
25°	950.8	955.4	967.7	990.9	995.5
27.5°	919.9	926.1	943.1	967.7	972.4
30°	885.9	895.2	913.7	941.5	946.1
32.5°	852.0	861.2	884.4	912.2	918.4
35°	814.9	825.7	852.0	884.4	892.1
37.5°	776.4	790.3	821.1	853.5	862.8
40°	737.8	753.2	787.2	821.1	831.9
42.5°	699.2	714.6	751.7	790.3	801.1
45°	656.0	677.6	717.7	757.8	767.1
47.5°	614.3	637.4	682.2	722.3	734.7
50°	574.2	597.3	645.2	686.8	699.2
52.5°	532.5	557.2	608.1	651.3	662.1
55°	490.8	517.1	571.1	612.8	622.0
57.5°	449.1	476.9	532.5	572.6	583.4
60°	407.5	436.8	490.8	530.9	538.7
62.5°	365.8	396.7	452.2	487.7	495.4
65°	324.1	358.1	413.6	446.1	455.3
67.5°	284.0	318.0	372.0	402.8	410.6
70°	247.0	277.8	331.8	355.0	358.1
72.5°	200.6	239.2	291.7	304.1	296.3
75°	162.1	200.6	245.4	240.8	231.5
77.5°	123.5	162.1	191.4	176.0	163.6
80°	88.0	126.6	132.7	109.6	103.4
82.5°	57.1	88.0	74.1	57.1	46.3
85°	29.3	41.7	23.2	18.5	15.4
87.5°	9.3	6.2	3.1	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)