

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: P307943

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-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: P307943
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-CP125-W2A-U-2700K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB 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: 3052.0 lumens
Efficiency: N/A
Efficacy: 103.5 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

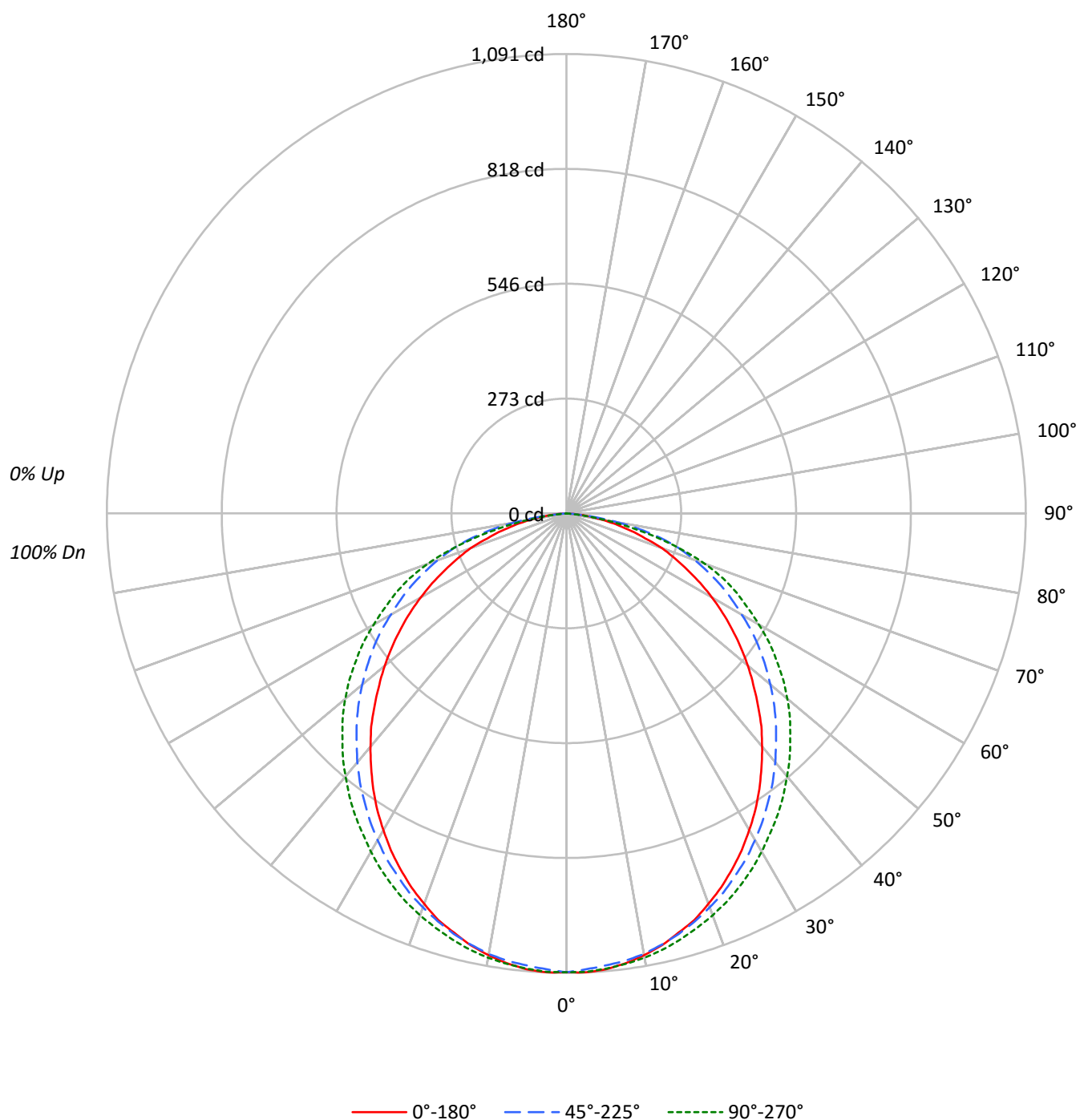
Input Watts (W): 29.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P307943

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P307943

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-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°	2932	2932	2932
5°	2935	2910	2931
10°	2911	2903	2928
15°	2871	2879	2917
20°	2825	2851	2908
25°	2768	2817	2898
30°	2699	2783	2882
35°	2625	2744	2873
40°	2541	2711	2865
45°	2447	2678	2862
50°	2357	2648	2870
55°	2258	2627	2861
60°	2150	2590	2842
65°	2024	2582	2842
70°	1905	2559	2762
75°	1652	2502	2360
80°	1337	2016	1571
85°	889	701	466



TEST NUMBER: P307943

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	3.4
10°-20°	292.8	9.6
20°-30°	439.2	14.4
30°-40°	523.9	17.2
40°-50°	541.6	17.7
50°-60°	494.4	16.2
60°-70°	389.1	12.7
70°-80°	226.5	7.4
80°-90°	41.7	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°	834.8	27.4
0°-40°	1358.6	44.5
0°-60°	2394.7	78.5
0°-90°	3052.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3052.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1090	1090	1090	1090	1090	
5°	1086	1084	1077	1086	1085	103
15°	1030	1032	1034	1047	1047	291
25°	932	937	949	972	976	429
35°	799	810	835	867	875	499
45°	643	664	704	743	752	497
55°	481	507	560	601	610	430
65°	318	351	406	437	446	316
75°	159	197	241	236	227	169
85°	29	41	23	18	15	37
90°	0	0	0	0	0	



TEST NUMBER: P307943

CATALOG NUMBER: 14FCZ2-35-UNV-L82765-S-CP125-W2A-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1089.5	1089.5	1089.5	1089.5	1089.5
2.5°	1091.0	1088.0	1083.5	1091.0	1089.5
5°	1086.5	1083.5	1077.4	1086.5	1085.0
7.5°	1077.4	1074.4	1071.4	1080.4	1078.9
10°	1065.3	1063.8	1062.3	1072.9	1071.4
12.5°	1050.2	1050.2	1048.7	1060.8	1060.8
15°	1030.5	1032.0	1033.5	1047.1	1047.1
17.5°	1012.3	1010.8	1015.4	1030.5	1032.0
20°	986.6	989.6	995.7	1013.9	1015.4
22.5°	960.9	963.9	974.5	992.7	997.2
25°	932.1	936.7	948.8	971.5	976.0
27.5°	901.9	907.9	924.6	948.8	953.3
30°	868.6	877.7	895.8	923.1	927.6
32.5°	835.3	844.4	867.1	894.3	900.4
35°	799.0	809.6	835.3	867.1	874.6
37.5°	761.1	774.8	805.0	836.8	845.9
40°	723.3	738.4	771.7	805.0	815.6
42.5°	685.5	700.6	736.9	774.8	785.4
45°	643.1	664.3	703.6	743.0	752.1
47.5°	602.3	625.0	668.8	708.2	720.3
50°	562.9	585.6	632.5	673.4	685.5
52.5°	522.1	546.3	596.2	638.6	649.2
55°	481.2	506.9	559.9	600.7	609.8
57.5°	440.3	467.6	522.1	561.4	572.0
60°	399.5	428.2	481.2	520.5	528.1
62.5°	358.6	388.9	443.4	478.2	485.7
65°	317.8	351.1	405.5	437.3	446.4
67.5°	278.4	311.7	364.7	394.9	402.5
70°	242.1	272.4	325.3	348.0	351.1
72.5°	196.7	234.5	286.0	298.1	290.5
75°	158.9	196.7	240.6	236.1	227.0
77.5°	121.1	158.9	187.6	172.5	160.4
80°	86.3	124.1	130.1	107.4	101.4
82.5°	56.0	86.3	72.6	56.0	45.4
85°	28.8	40.9	22.7	18.2	15.1
87.5°	9.1	6.1	3.0	3.0	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)