

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: P307944

Luminaire Tested: **14FCZ2-35-UNV-L82765-S-CP125-W2A-U-3000K**

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: P307944
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-3000K
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS, 0.125" POLYCARB SHEET
Light Source: (168) 3000K 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: 3140.0 lumens
Efficiency: N/A
Efficacy: 107.2 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

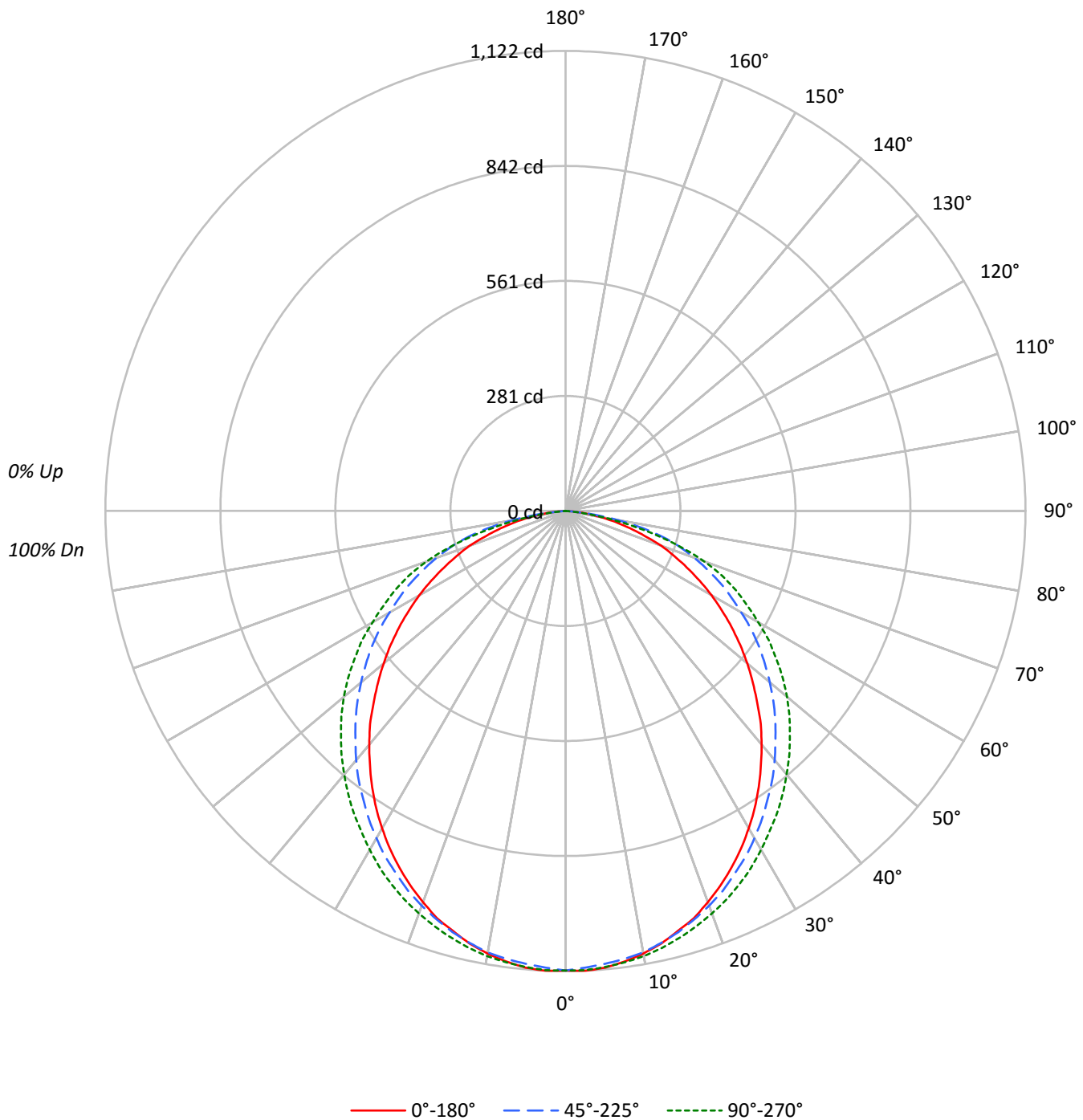
Input Watts (W): 29.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	3016	3016	3016
5°	3019	2994	3015
10°	2995	2986	3012
15°	2954	2962	3001
20°	2907	2934	2991
25°	2847	2898	2982
30°	2777	2864	2965
35°	2700	2823	2956
40°	2614	2789	2948
45°	2518	2755	2945
50°	2424	2725	2953
55°	2323	2702	2943
60°	2212	2665	2924
65°	2082	2656	2925
70°	1960	2633	2842
75°	1700	2573	2428
80°	1375	2075	1616
85°	914	722	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	3.4
10°-20°	301.2	9.6
20°-30°	451.8	14.4
30°-40°	539.0	17.2
40°-50°	557.2	17.7
50°-60°	508.7	16.2
60°-70°	400.3	12.7
70°-80°	233.0	7.4
80°-90°	42.9	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°	858.9	27.4
0°-40°	1397.8	44.5
0°-60°	2463.7	78.5
0°-90°	3140.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3140.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1121	1121	1121	1121	1121	
5°	1118	1115	1108	1118	1116	106
15°	1060	1062	1063	1077	1077	299
25°	959	964	976	1000	1004	442
35°	822	833	859	892	900	514
45°	662	684	724	764	774	511
55°	495	522	576	618	627	443
65°	327	361	417	450	459	325
75°	164	202	248	243	234	174
85°	30	42	23	19	16	38
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1120.9	1120.9	1120.9	1120.9	1120.9
2.5°	1122.5	1119.4	1114.7	1122.5	1120.9
5°	1117.8	1114.7	1108.5	1117.8	1116.3
7.5°	1108.5	1105.4	1102.2	1111.6	1110.0
10°	1096.0	1094.5	1092.9	1103.8	1102.2
12.5°	1080.4	1080.4	1078.9	1091.3	1091.3
15°	1060.2	1061.8	1063.3	1077.3	1077.3
17.5°	1041.5	1040.0	1044.6	1060.2	1061.8
20°	1015.1	1018.2	1024.4	1043.1	1044.6
22.5°	988.6	991.7	1002.6	1021.3	1026.0
25°	959.0	963.7	976.1	999.5	1004.2
27.5°	927.9	934.1	951.2	976.1	980.8
30°	893.6	903.0	921.7	949.7	954.3
32.5°	859.4	868.7	892.1	920.1	926.3
35°	822.0	832.9	859.4	892.1	899.9
37.5°	783.1	797.1	828.2	860.9	870.3
40°	744.2	759.7	794.0	828.2	839.1
42.5°	705.3	720.8	758.2	797.1	808.0
45°	661.7	683.5	723.9	764.4	773.8
47.5°	619.6	643.0	688.1	728.6	741.1
50°	579.1	602.5	650.8	692.8	705.3
52.5°	537.1	562.0	613.4	657.0	667.9
55°	495.1	521.5	576.0	618.1	627.4
57.5°	453.0	481.1	537.1	577.6	588.5
60°	411.0	440.6	495.1	535.6	543.3
62.5°	369.0	400.1	456.2	492.0	499.7
65°	326.9	361.2	417.2	449.9	459.3
67.5°	286.5	320.7	375.2	406.3	414.1
70°	249.1	280.2	334.7	358.1	361.2
72.5°	202.4	241.3	294.2	306.7	298.9
75°	163.5	202.4	247.5	242.9	233.5
77.5°	124.5	163.5	193.0	177.5	165.0
80°	88.7	127.7	133.9	110.5	104.3
82.5°	57.6	88.7	74.7	57.6	46.7
85°	29.6	42.0	23.4	18.7	15.6
87.5°	9.3	6.2	3.1	3.1	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)