

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: P307227

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP125-W2A-U-4500K**

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: P307227
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-CP125-W2A-U-4500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB SHEET
Light Source: (168) 4500K 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: 3129.0 lumens
Efficiency: N/A
Efficacy: 80.2 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

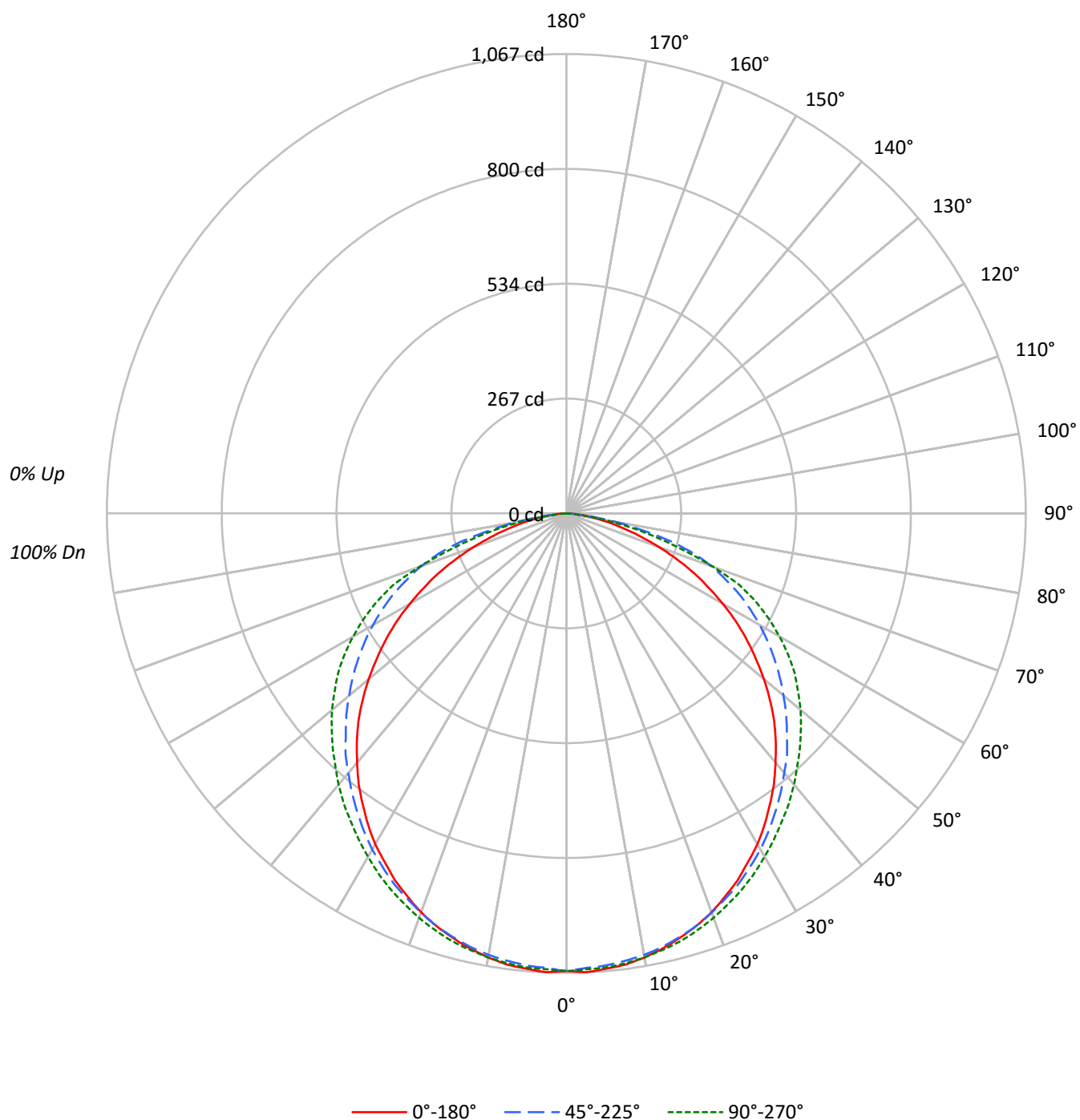
Input Watts (W): 39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	2859	2859	2859
5°	2868	2847	2860
10°	2861	2845	2861
15°	2842	2837	2864
20°	2823	2826	2863
25°	2793	2816	2863
30°	2758	2801	2861
35°	2709	2780	2867
40°	2654	2765	2889
45°	2598	2756	2921
50°	2509	2756	2974
55°	2400	2769	3037
60°	2256	2791	3077
65°	2080	2819	3095
70°	1811	2825	2849
75°	1494	2629	2302
80°	1175	1891	1540
85°	911	729	364



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	3.2
10°-20°	288.7	9.2
20°-30°	438.4	14.0
30°-40°	531.2	17.0
40°-50°	559.7	17.9
50°-60°	522.5	16.7
60°-70°	417.6	13.3
70°-80°	229.8	7.3
80°-90°	40.6	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°	827.6	26.5
0°-40°	1358.8	43.4
0°-60°	2441.1	78.0
0°-90°	3129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3129.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1063	1063	1063	1063	1063	
5°	1062	1059	1054	1061	1059	101
15°	1020	1020	1018	1028	1028	288
25°	941	943	948	962	964	433
35°	824	832	846	868	873	516
45°	683	696	724	757	768	525
55°	512	537	590	632	647	457
65°	327	368	443	479	486	322
75°	144	206	253	227	221	155
85°	30	37	24	15	12	36
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1062.6	1062.6	1062.6	1062.6	1062.6
2.5°	1066.6	1063.6	1056.7	1062.6	1059.7
5°	1061.6	1058.7	1053.8	1060.7	1058.7
7.5°	1056.7	1052.8	1047.9	1055.7	1053.8
10°	1046.9	1043.9	1041.0	1047.9	1046.9
12.5°	1035.1	1034.1	1031.1	1039.0	1038.0
15°	1020.3	1020.3	1018.3	1028.2	1028.2
17.5°	1004.6	1003.6	1004.6	1015.4	1014.4
20°	985.9	985.9	986.9	999.7	999.7
22.5°	963.2	964.2	967.2	982.9	981.9
25°	940.6	942.6	948.5	962.3	964.2
27.5°	913.1	918.0	924.9	941.6	943.6
30°	887.5	890.4	901.3	917.0	920.9
32.5°	857.0	862.9	874.7	892.4	897.3
35°	824.5	832.4	846.2	867.8	872.7
37.5°	792.0	798.9	817.6	840.3	849.1
40°	755.6	767.5	787.1	812.7	822.5
42.5°	720.2	732.0	758.6	785.2	794.0
45°	682.8	695.6	724.2	756.6	767.5
47.5°	641.5	656.3	692.7	727.1	738.9
50°	599.2	617.9	658.2	696.6	710.4
52.5°	554.9	578.5	624.8	665.1	677.9
55°	511.6	537.2	590.3	631.7	647.4
57.5°	467.4	494.9	554.9	602.2	611.0
60°	419.1	452.6	518.5	559.8	571.7
62.5°	371.9	410.3	481.1	520.5	530.3
65°	326.7	368.0	442.8	479.2	486.1
67.5°	277.5	326.7	400.5	433.9	435.9
70°	230.2	287.3	359.1	374.9	362.1
72.5°	184.0	245.0	310.9	298.1	287.3
75°	143.7	205.6	252.9	227.3	221.4
77.5°	106.3	168.2	181.0	167.3	156.4
80°	75.8	132.8	122.0	104.3	99.4
82.5°	52.1	83.6	66.9	52.1	45.3
85°	29.5	37.4	23.6	14.8	11.8
87.5°	12.8	8.9	4.9	3.9	3.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)