

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: P307230

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP125-W2A-U-5700K**

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: P307230
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-5700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET
Light Source: (168) 5700K 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: 3212.0 lumens
Efficiency: N/A
Efficacy: 81.5 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

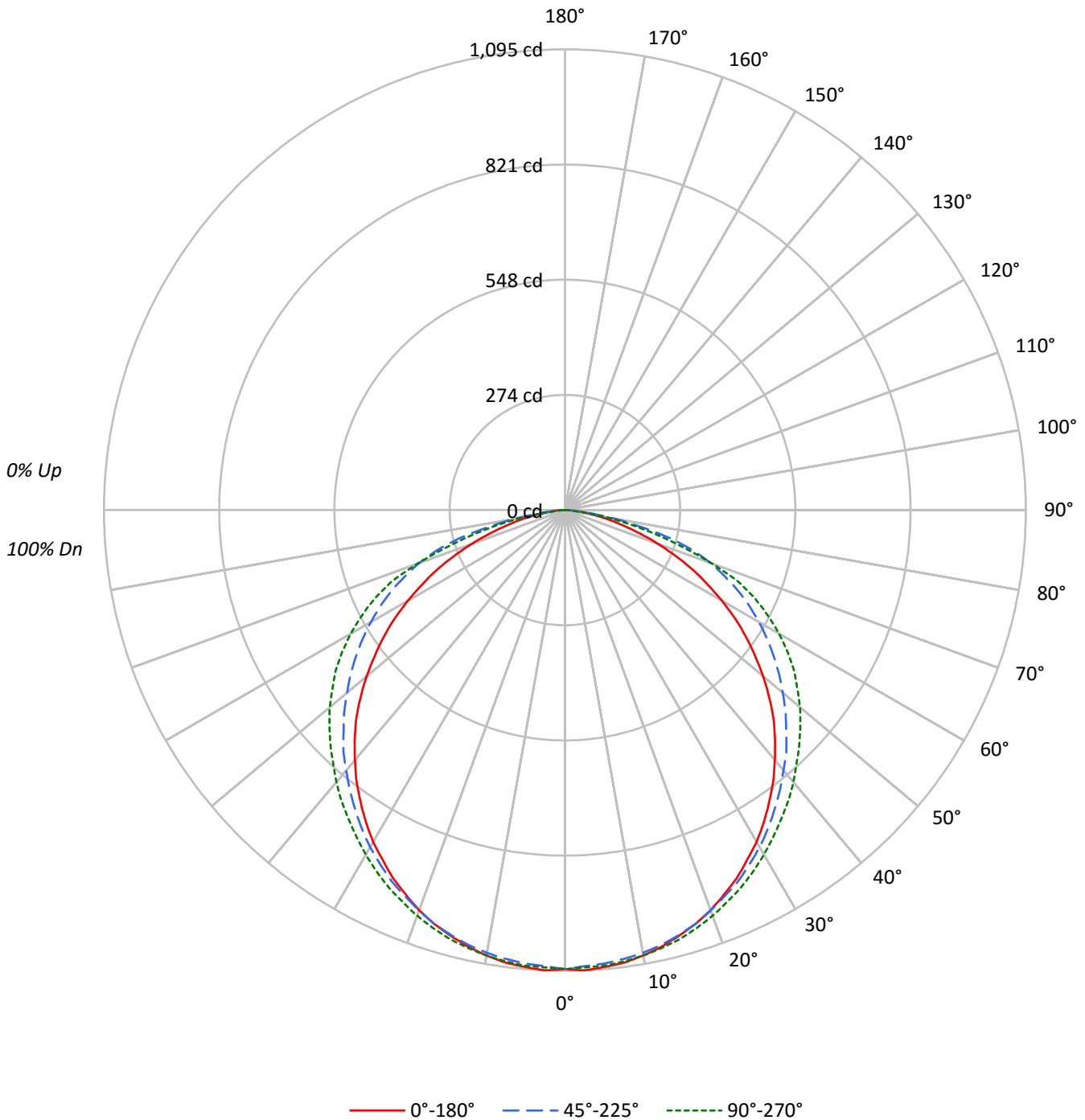
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2935	2935	2935
5°	2944	2922	2936
10°	2937	2920	2937
15°	2918	2912	2941
20°	2898	2901	2939
25°	2867	2891	2939
30°	2831	2875	2938
35°	2780	2853	2943
40°	2725	2838	2966
45°	2667	2829	2998
50°	2575	2829	3053
55°	2464	2843	3118
60°	2316	2865	3158
65°	2135	2894	3177
70°	1859	2901	2924
75°	1534	2699	2363
80°	1206	1940	1581
85°	936	747	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.3	3.2
10°-20°	296.3	9.2
20°-30°	450.0	14.0
30°-40°	545.3	17.0
40°-50°	574.6	17.9
50°-60°	536.4	16.7
60°-70°	428.7	13.3
70°-80°	235.9	7.3
80°-90°	41.7	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°	849.6	26.5
0°-40°	1394.9	43.4
0°-60°	2505.8	78.0
0°-90°	3212.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3212.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1091	1091	1091	1091	1091	
5°	1090	1087	1082	1089	1087	104
15°	1047	1047	1045	1056	1056	296
25°	966	968	974	988	990	444
35°	846	854	869	891	896	530
45°	701	714	743	777	788	539
55°	525	552	606	648	665	469
65°	335	378	454	492	499	330
75°	148	211	260	233	227	159
85°	30	38	24	15	12	37
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1090.8	1090.8	1090.8	1090.8	1090.8
2.5°	1094.9	1091.8	1084.8	1090.8	1087.8
5°	1089.8	1086.8	1081.7	1088.8	1086.8
7.5°	1084.8	1080.7	1075.7	1083.7	1081.7
10°	1074.7	1071.6	1068.6	1075.7	1074.7
12.5°	1062.5	1061.5	1058.5	1066.6	1065.6
15°	1047.4	1047.4	1045.4	1055.5	1055.5
17.5°	1031.2	1030.2	1031.2	1042.3	1041.3
20°	1012.0	1012.0	1013.0	1026.2	1026.2
22.5°	988.8	989.8	992.8	1009.0	1008.0
25°	965.6	967.6	973.7	987.8	989.8
27.5°	937.3	942.3	949.4	966.6	968.6
30°	911.0	914.1	925.2	941.3	945.4
32.5°	879.7	885.8	897.9	916.1	921.1
35°	846.4	854.5	868.6	890.8	895.9
37.5°	813.1	820.1	839.3	862.5	871.6
40°	775.7	787.8	808.0	834.3	844.4
42.5°	739.3	751.4	778.7	806.0	815.1
45°	700.9	714.1	743.4	776.7	787.8
47.5°	658.5	673.7	711.0	746.4	758.5
50°	615.1	634.3	675.7	715.1	729.2
52.5°	569.6	593.9	641.4	682.8	695.9
55°	525.2	551.5	606.0	648.4	664.6
57.5°	479.8	508.0	569.6	618.1	627.2
60°	430.3	464.6	532.3	574.7	586.8
62.5°	381.8	421.2	493.9	534.3	544.4
65°	335.3	377.7	454.5	491.9	498.9
67.5°	284.8	335.3	411.1	445.4	447.4
70°	236.3	294.9	368.7	384.8	371.7
72.5°	188.9	251.5	319.2	306.0	294.9
75°	147.5	211.1	259.6	233.3	227.3
77.5°	109.1	172.7	185.8	171.7	160.6
80°	77.8	136.4	125.2	107.1	102.0
82.5°	53.5	85.9	68.7	53.5	46.5
85°	30.3	38.4	24.2	15.2	12.1
87.5°	13.1	9.1	5.1	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)