

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: P307229

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-CP125-W2A-U-5500K**

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: P307229
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-5500K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125"
POLYCARB SHEET
Light Source: (168) 5500K 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: 3203.0 lumens
Efficiency: N/A
Efficacy: 81.3 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

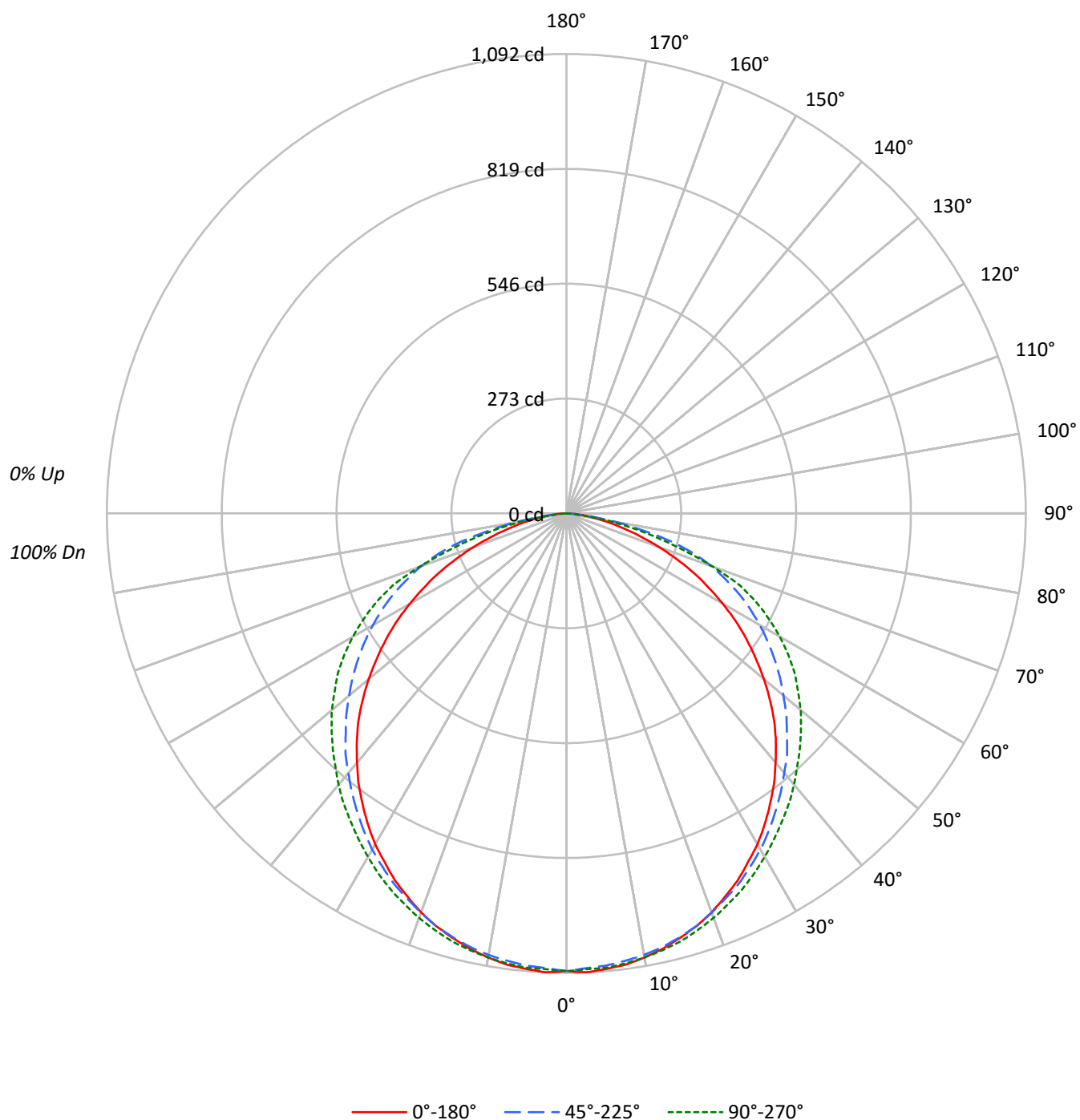
Input Watts (W): 39.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	2927	2927	2927
5°	2935	2914	2927
10°	2928	2912	2928
15°	2910	2904	2932
20°	2890	2893	2930
25°	2859	2883	2931
30°	2823	2867	2929
35°	2773	2846	2935
40°	2717	2830	2958
45°	2660	2821	2990
50°	2568	2821	3044
55°	2457	2835	3109
60°	2309	2857	3150
65°	2129	2886	3168
70°	1854	2892	2916
75°	1528	2691	2356
80°	1203	1936	1576
85°	932	747	374



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	3.2
10°-20°	295.5	9.2
20°-30°	448.7	14.0
30°-40°	543.7	17.0
40°-50°	573.0	17.9
50°-60°	534.9	16.7
60°-70°	427.5	13.3
70°-80°	235.2	7.3
80°-90°	41.5	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°	847.2	26.5
0°-40°	1390.9	43.4
0°-60°	2498.8	78.0
0°-90°	3203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3203.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1088	1088	1088	1088	1088	
5°	1087	1084	1079	1086	1084	103
15°	1044	1044	1042	1052	1052	295
25°	963	965	971	985	987	443
35°	844	852	866	888	893	528
45°	699	712	741	774	786	538
55°	524	550	604	647	663	468
65°	334	377	453	490	498	329
75°	147	210	259	233	227	158
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°	1087.8	1087.8	1087.8	1087.8	1087.8
2.5°	1091.8	1088.8	1081.7	1087.8	1084.7
5°	1086.7	1083.7	1078.7	1085.7	1083.7
7.5°	1081.7	1077.7	1072.6	1080.7	1078.7
10°	1071.6	1068.6	1065.6	1072.6	1071.6
12.5°	1059.6	1058.5	1055.5	1063.6	1062.6
15°	1044.4	1044.4	1042.4	1052.5	1052.5
17.5°	1028.3	1027.3	1028.3	1039.4	1038.4
20°	1009.2	1009.2	1010.2	1023.3	1023.3
22.5°	986.0	987.0	990.1	1006.2	1005.2
25°	962.9	964.9	970.9	985.0	987.0
27.5°	934.7	939.7	946.7	963.9	965.9
30°	908.5	911.5	922.6	938.7	942.7
32.5°	877.3	883.3	895.4	913.5	918.5
35°	844.0	852.1	866.2	888.3	893.4
37.5°	810.8	817.8	837.0	860.1	869.2
40°	773.5	785.6	805.7	831.9	842.0
42.5°	737.3	749.3	776.5	803.7	812.8
45°	699.0	712.1	741.3	774.5	785.6
47.5°	656.7	671.8	709.1	744.3	756.4
50°	613.4	632.5	673.8	713.1	727.2
52.5°	568.0	592.2	639.6	680.9	693.9
55°	523.7	549.9	604.3	646.6	662.7
57.5°	478.4	506.6	568.0	616.4	625.5
60°	429.1	463.3	530.8	573.1	585.2
62.5°	380.7	420.0	492.5	532.8	542.9
65°	334.4	376.7	453.2	490.5	497.5
67.5°	284.0	334.4	409.9	444.2	446.2
70°	235.7	294.1	367.6	383.7	370.6
72.5°	188.3	250.8	318.3	305.2	294.1
75°	147.0	210.5	258.8	232.7	226.6
77.5°	108.8	172.2	185.3	171.2	160.1
80°	77.6	136.0	124.9	106.8	101.7
82.5°	53.4	85.6	68.5	53.4	46.3
85°	30.2	38.3	24.2	15.1	12.1
87.5°	13.1	9.1	5.0	4.0	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)