

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: P307223

Luminaire Tested: **14FCZ2-44-UNV-L82765-HRP-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: P307223
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-2700K
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. 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: 2827.0 lumens
Efficiency: N/A
Efficacy: 73.8 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

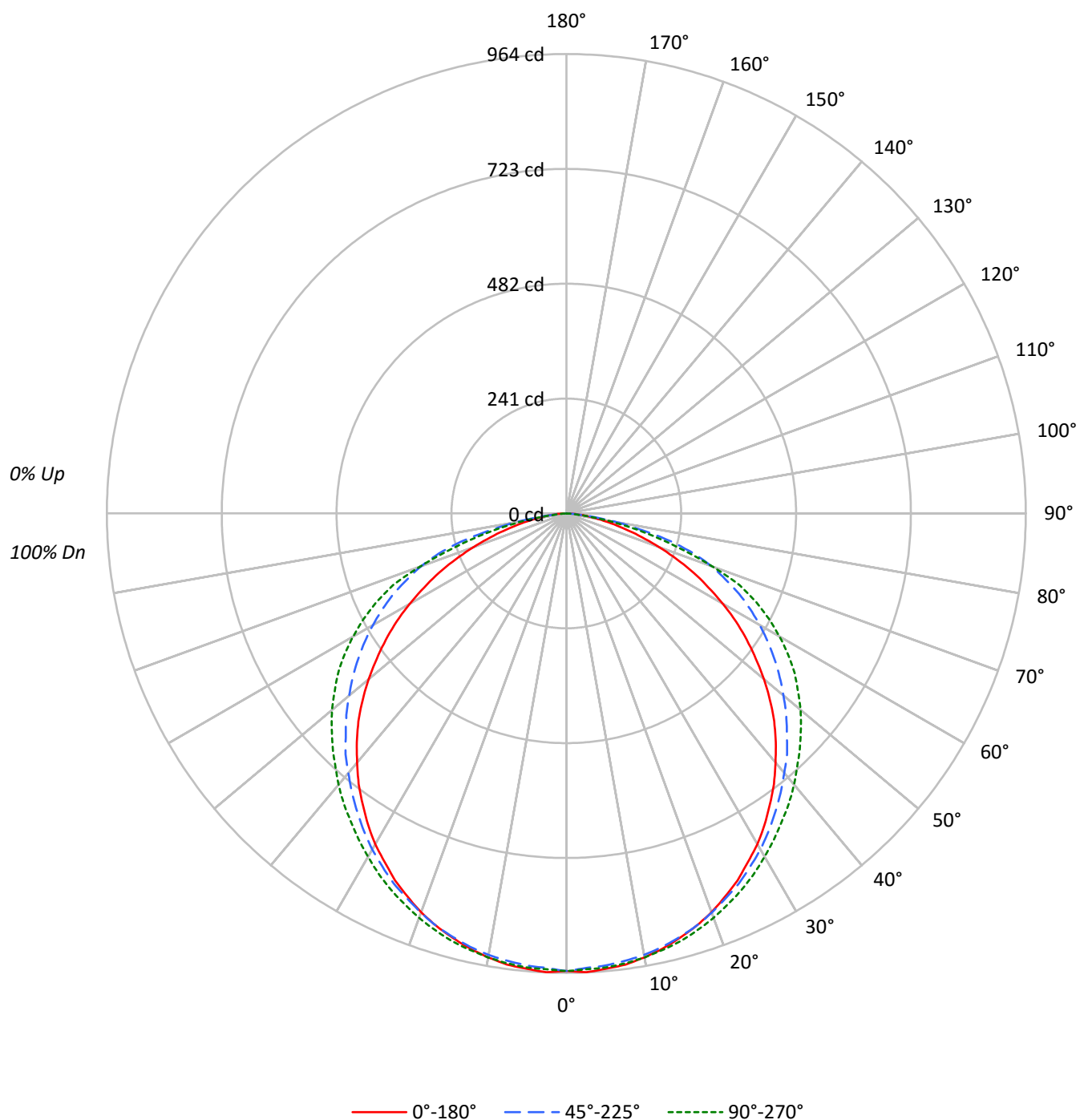
Input Watts (W): 38.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		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°	2584	2584	2584
5°	2591	2572	2584
10°	2584	2570	2584
15°	2568	2563	2588
20°	2551	2553	2586
25°	2523	2544	2587
30°	2491	2530	2586
35°	2447	2511	2590
40°	2398	2498	2611
45°	2348	2490	2639
50°	2267	2490	2687
55°	2169	2502	2744
60°	2038	2521	2780
65°	1879	2547	2796
70°	1637	2553	2574
75°	1350	2376	2079
80°	1060	1708	1392
85°	824	658	330



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.9	3.2
10°-20°	260.8	9.2
20°-30°	396.1	14.0
30°-40°	479.9	17.0
40°-50°	505.7	17.9
50°-60°	472.1	16.7
60°-70°	377.3	13.3
70°-80°	207.6	7.3
80°-90°	36.7	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°	747.8	26.5
0°-40°	1227.7	43.4
0°-60°	2205.5	78.0
0°-90°	2827.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2827.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	960	960	960	960	960	
5°	959	956	952	958	956	91
15°	922	922	920	929	929	260
25°	850	852	857	869	871	391
35°	745	752	764	784	788	466
45°	617	628	654	684	693	475
55°	462	485	533	571	585	413
65°	295	332	400	433	439	291
75°	130	186	228	205	200	140
85°	27	34	21	13	11	33
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	960.1	960.1	960.1	960.1	960.1
2.5°	963.6	961.0	954.7	960.1	957.4
5°	959.2	956.5	952.1	958.3	956.5
7.5°	954.7	951.2	946.7	953.8	952.1
10°	945.8	943.2	940.5	946.7	945.8
12.5°	935.2	934.3	931.6	938.7	937.8
15°	921.8	921.8	920.1	929.0	929.0
17.5°	907.6	906.7	907.6	917.4	916.5
20°	890.7	890.7	891.6	903.2	903.2
22.5°	870.3	871.2	873.8	888.1	887.2
25°	849.8	851.6	856.9	869.4	871.2
27.5°	824.9	829.4	835.6	850.7	852.5
30°	801.8	804.5	814.3	828.5	832.1
32.5°	774.3	779.6	790.3	806.3	810.7
35°	744.9	752.0	764.5	784.1	788.5
37.5°	715.6	721.8	738.7	759.2	767.2
40°	682.7	693.4	711.2	734.3	743.2
42.5°	650.7	661.4	685.4	709.4	717.4
45°	616.9	628.5	654.3	683.6	693.4
47.5°	579.6	592.9	625.8	656.9	667.6
50°	541.4	558.3	594.7	629.4	641.8
52.5°	501.4	522.7	564.5	600.9	612.5
55°	462.3	485.4	533.4	570.7	584.9
57.5°	422.3	447.1	501.4	544.0	552.0
60°	378.7	408.9	468.5	505.8	516.5
62.5°	336.0	370.7	434.7	470.3	479.1
65°	295.1	332.5	400.0	432.9	439.1
67.5°	250.7	295.1	361.8	392.0	393.8
70°	208.0	259.6	324.5	338.7	327.1
72.5°	166.2	221.3	280.9	269.4	259.6
75°	129.8	185.8	228.5	205.3	200.0
77.5°	96.0	152.0	163.6	151.1	141.3
80°	68.4	120.0	110.2	94.2	89.8
82.5°	47.1	75.6	60.4	47.1	40.9
85°	26.7	33.8	21.3	13.3	10.7
87.5°	11.6	8.0	4.4	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)