

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: P307182

Luminaire Tested: **14FCZ2-39-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: P307182
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: 14FCZ2-39-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: 2799.0 lumens
Efficiency: N/A
Efficacy: 82.6 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

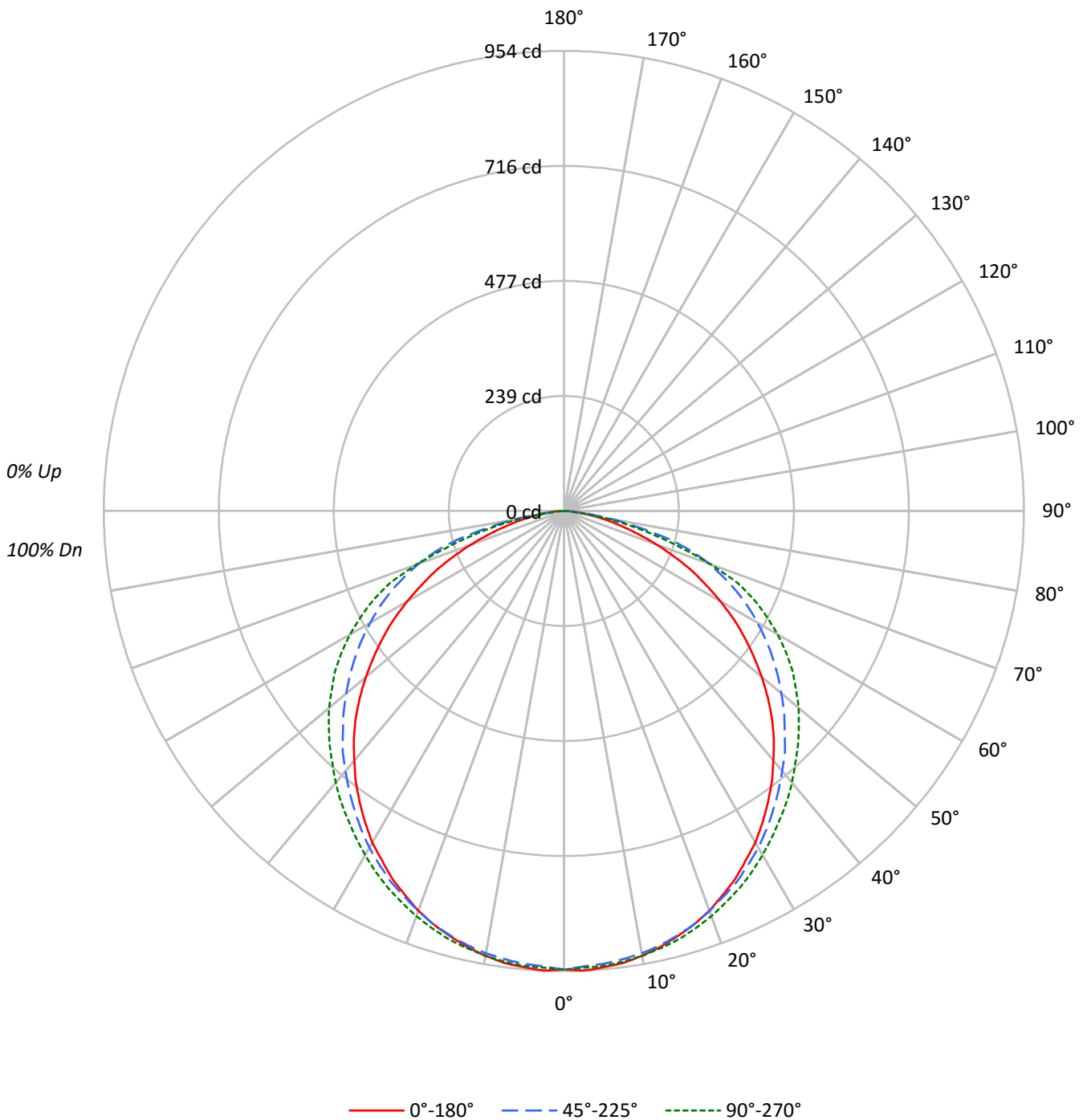
Input Watts (W): 33.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2558	2558	2558
5°	2565	2546	2558
10°	2559	2544	2559
15°	2543	2538	2562
20°	2525	2528	2561
25°	2498	2519	2561
30°	2467	2505	2560
35°	2423	2486	2565
40°	2374	2473	2585
45°	2324	2465	2613
50°	2244	2465	2660
55°	2147	2478	2717
60°	2018	2496	2752
65°	1861	2522	2769
70°	1621	2528	2548
75°	1336	2352	2059
80°	1051	1691	1378
85°	815	651	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	3.2
10°-20°	258.2	9.2
20°-30°	392.1	14.0
30°-40°	475.1	17.0
40°-50°	500.7	17.9
50°-60°	467.4	16.7
60°-70°	373.5	13.3
70°-80°	205.5	7.3
80°-90°	36.3	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°	740.4	26.5
0°-40°	1215.5	43.4
0°-60°	2183.6	78.0
0°-90°	2799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	951	951	951	951	951	
5°	950	947	943	949	947	90
15°	913	913	911	920	920	258
25°	841	843	848	861	862	387
35°	738	745	757	776	781	461
45°	611	622	648	677	686	470
55°	458	481	528	565	579	409
65°	292	329	396	429	435	288
75°	128	184	226	203	198	138
85°	26	33	21	13	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	950.6	950.6	950.6	950.6	950.6
2.5°	954.1	951.4	945.3	950.6	947.9
5°	949.7	947.0	942.6	948.8	947.0
7.5°	945.3	941.8	937.4	944.4	942.6
10°	936.5	933.8	931.2	937.4	936.5
12.5°	925.9	925.0	922.4	929.4	928.6
15°	912.7	912.7	910.9	919.7	919.7
17.5°	898.6	897.7	898.6	908.3	907.4
20°	881.9	881.9	882.8	894.2	894.2
22.5°	861.7	862.5	865.2	879.3	878.4
25°	841.4	843.2	848.5	860.8	862.5
27.5°	816.8	821.2	827.3	842.3	844.1
30°	793.9	796.5	806.2	820.3	823.8
32.5°	766.6	771.9	782.4	798.3	802.7
35°	737.6	744.6	756.9	776.3	780.7
37.5°	708.5	714.7	731.4	751.6	759.6
40°	675.9	686.5	704.1	727.0	735.8
42.5°	644.3	654.8	678.6	702.4	710.3
45°	610.8	622.3	647.8	676.8	686.5
47.5°	573.9	587.1	619.6	650.4	661.0
50°	536.0	552.7	588.8	623.1	635.5
52.5°	496.4	517.5	558.9	595.0	606.4
55°	457.7	480.6	528.1	565.1	579.1
57.5°	418.1	442.7	496.4	538.6	546.6
60°	374.9	404.9	463.8	500.8	511.4
62.5°	332.7	367.0	430.4	465.6	474.4
65°	292.2	329.2	396.1	428.6	434.8
67.5°	248.2	292.2	358.2	388.1	389.9
70°	206.0	257.0	321.3	335.3	323.9
72.5°	164.6	219.2	278.1	266.7	257.0
75°	128.5	183.9	226.2	203.3	198.0
77.5°	95.1	150.5	161.9	149.6	139.9
80°	67.8	118.8	109.1	93.3	88.9
82.5°	46.6	74.8	59.8	46.6	40.5
85°	26.4	33.4	21.1	13.2	10.6
87.5°	11.4	7.9	4.4	3.5	3.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)