

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: P308265

Luminaire Tested: **22FCZ2-39HE-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: P308265  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-22)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 22FCZ2-39HE-UNV-L82765-HRP-CP125-W2A-U-5700K  
Description: 2'X2' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" POLYCARB SHEET  
Light Source: (168) 3000K 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**

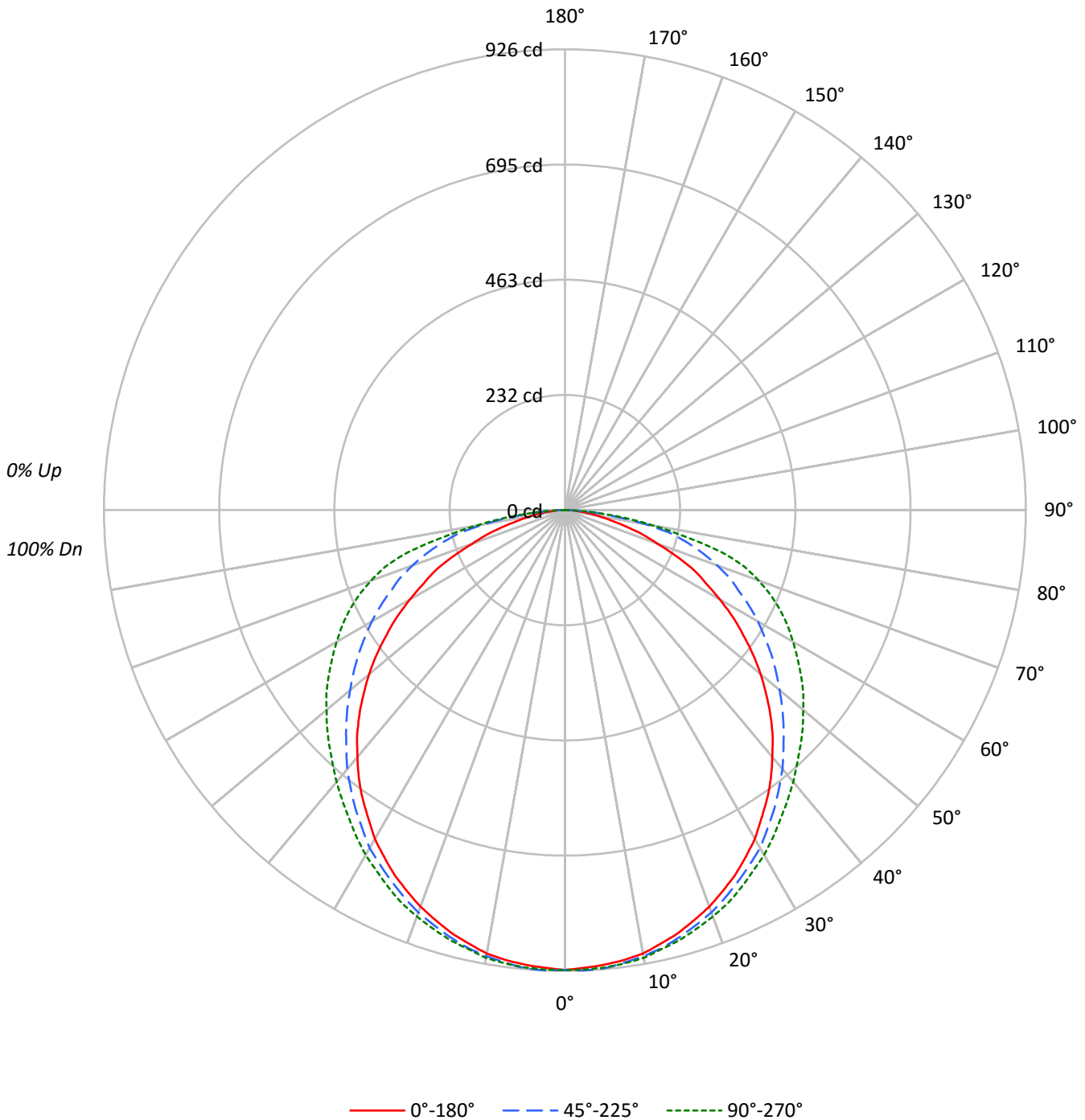
Lumens per Lamp: N/A  
Luminaire Lumens: 2807.0 lumens  
Efficiency: N/A  
Efficacy: 84.3 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 33.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	108	103	98	94	105	101	96	93	96	93	90	92	90	87	89	87	84	82
2	98	89	82	76	95	87	80	75	84	78	73	80	75	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	59	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	43	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	44	38	33	31
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	31	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2487	2487	2487
5°	2478	2497	2492
10°	2472	2487	2497
15°	2452	2476	2491
20°	2429	2464	2490
25°	2403	2445	2487
30°	2371	2437	2487
35°	2327	2408	2484
40°	2277	2389	2507
45°	2224	2365	2547
50°	2150	2357	2617
55°	2052	2376	2716
60°	1935	2411	2849
65°	1827	2458	3044
70°	1560	2563	3260
75°	1307	2670	3387
80°	1071	2579	2827
85°	929	1914	2078



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.6	3.1
10°-20°	250.6	8.9
20°-30°	379.8	13.5
30°-40°	458.6	16.3
40°-50°	481.9	17.2
50°-60°	453.4	16.2
60°-70°	378.0	13.5
70°-80°	250.5	8.9
80°-90°	66.7	2.4
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°	718.0	25.6
0°-40°	1176.5	41.9
0°-60°	2111.8	75.2
0°-90°	2807.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2807.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	924	924	924	924	924	
5°	917	919	924	924	922	87
15°	880	884	889	892	894	248
25°	809	814	823	834	838	373
35°	708	715	733	749	756	443
45°	584	593	622	653	669	450
55°	437	457	506	558	579	391
65°	287	312	386	450	478	279
75°	126	175	257	310	326	136
85°	30	46	62	67	67	35
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	924.3	924.3	924.3	924.3	924.3
2.5°	920.8	922.5	926.1	926.1	924.3
5°	917.2	919.0	924.3	924.3	922.5
7.5°	911.9	913.7	917.2	920.8	919.0
10°	904.8	906.6	910.1	913.7	913.7
12.5°	892.4	894.2	901.3	903.1	903.1
15°	880.0	883.6	888.9	892.4	894.2
17.5°	864.1	867.7	874.7	881.8	881.8
20°	848.2	851.7	860.6	867.7	869.4
22.5°	828.7	834.0	842.9	851.7	855.3
25°	809.2	814.5	823.4	834.0	837.5
27.5°	786.2	791.5	803.9	816.3	818.1
30°	763.2	768.5	784.4	795.1	800.4
32.5°	734.8	741.9	757.9	773.8	779.1
35°	708.3	715.4	733.1	749.0	756.1
37.5°	680.0	687.0	706.5	726.0	734.8
40°	648.1	656.9	680.0	701.2	713.6
42.5°	618.0	626.8	649.9	678.2	690.6
45°	584.3	593.2	621.5	653.4	669.3
47.5°	548.9	559.5	593.2	632.1	648.1
50°	513.5	525.9	563.1	607.4	625.1
52.5°	476.3	492.3	534.8	582.6	603.8
55°	437.4	456.8	506.4	557.8	579.0
57.5°	400.2	417.9	476.3	531.2	554.2
60°	359.5	382.5	448.0	504.7	529.4
62.5°	320.5	345.3	417.9	478.1	504.7
65°	286.9	311.6	386.0	449.8	478.1
67.5°	242.6	276.2	359.5	419.7	448.0
70°	198.3	244.4	325.8	387.8	414.3
72.5°	164.7	208.9	292.2	354.1	378.9
75°	125.7	175.3	256.8	309.9	325.8
77.5°	93.8	145.2	219.6	246.1	247.9
80°	69.1	111.6	166.4	175.3	182.4
82.5°	47.8	77.9	108.0	118.6	122.2
85°	30.1	46.0	62.0	67.3	67.3
87.5°	15.9	17.7	21.2	21.2	21.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)