

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: P312575

Luminaire Tested: **22FCZ2-44HE-UNV-L83050-HRP-CP125-W2A-U-3000K**

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: P312575  
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: 22FCZ2-44HE-UNV-L83050-HRP-CP125-W2A-U-3000K  
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**

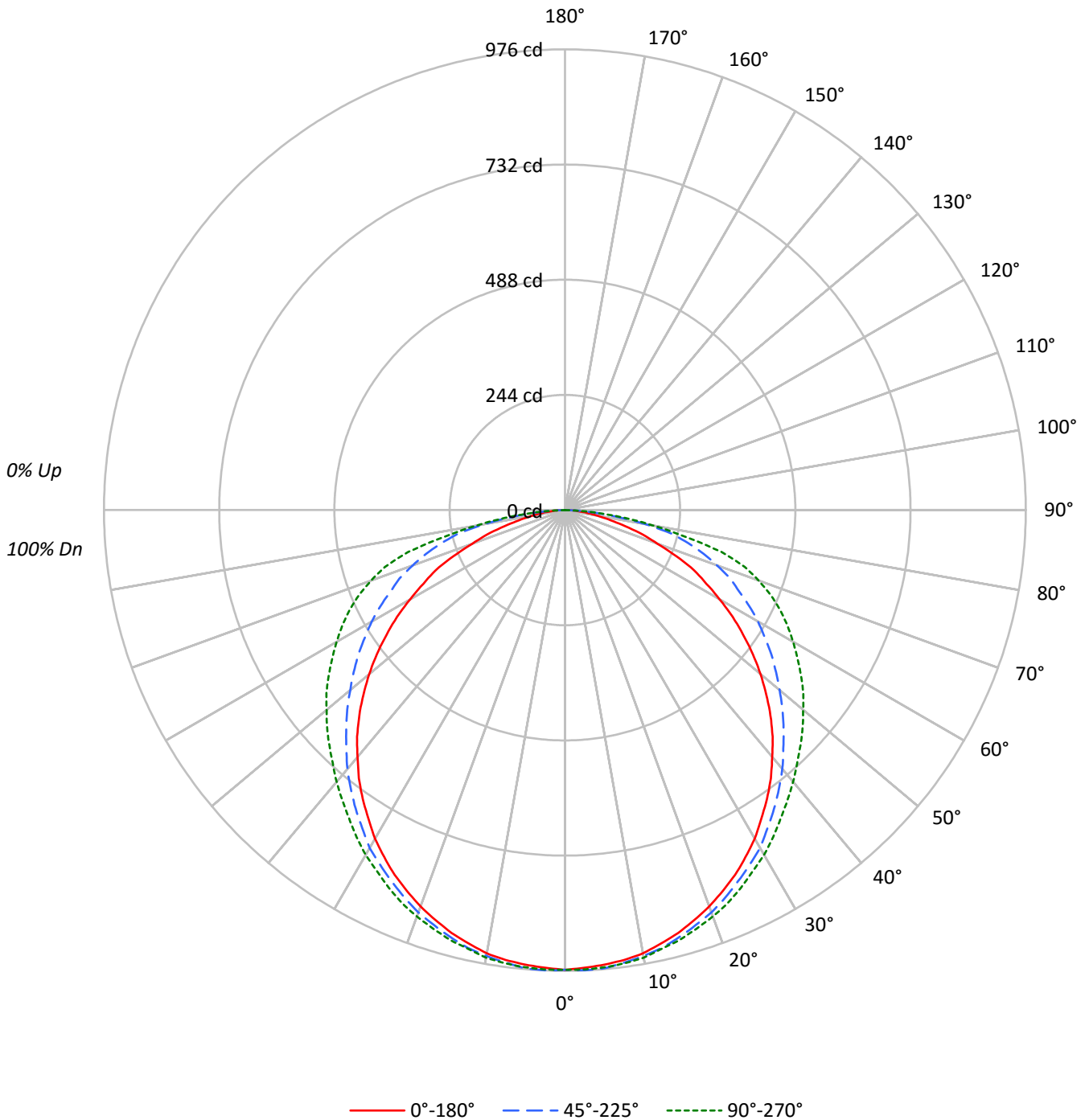
Lumens per Lamp: N/A  
Luminaire Lumens: 2958.0 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 37.1  
Input Voltage (V): NR  
Input Current (A<sub>in</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°	2621	2621	2621
5°	2611	2631	2626
10°	2605	2621	2631
15°	2584	2610	2625
20°	2560	2597	2624
25°	2532	2576	2621
30°	2499	2568	2621
35°	2452	2538	2618
40°	2399	2517	2642
45°	2343	2493	2684
50°	2265	2484	2758
55°	2162	2504	2863
60°	2039	2541	3003
65°	1925	2590	3208
70°	1644	2701	3435
75°	1378	2813	3569
80°	1128	2718	2978
85°	979	2016	2189



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.3	3.1
10°-20°	264.1	8.9
20°-30°	400.2	13.5
30°-40°	483.2	16.3
40°-50°	507.8	17.2
50°-60°	477.8	16.2
60°-70°	398.4	13.5
70°-80°	263.9	8.9
80°-90°	70.3	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°	756.6	25.6
0°-40°	1239.8	41.9
0°-60°	2225.3	75.2
0°-90°	2958.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2958.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	974	974	974	974	974	
5°	967	968	974	974	972	92
15°	927	931	937	940	942	261
25°	853	858	868	879	883	393
35°	746	754	772	789	797	467
45°	616	625	655	688	705	474
55°	461	481	534	588	610	412
65°	302	328	407	474	504	294
75°	132	185	271	326	343	144
85°	32	48	65	71	71	37
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	974.0	974.0	974.0	974.0	974.0
2.5°	970.3	972.2	975.9	975.9	974.0
5°	966.6	968.4	974.0	974.0	972.2
7.5°	961.0	962.8	966.6	970.3	968.4
10°	953.5	955.4	959.1	962.8	962.8
12.5°	940.4	942.3	949.8	951.6	951.6
15°	927.4	931.1	936.7	940.4	942.3
17.5°	910.6	914.3	921.8	929.3	929.3
20°	893.8	897.5	906.9	914.3	916.2
22.5°	873.3	878.9	888.2	897.5	901.3
25°	852.7	858.3	867.7	878.9	882.6
27.5°	828.5	834.1	847.2	860.2	862.1
30°	804.2	809.8	826.6	837.8	843.4
32.5°	774.4	781.8	798.6	815.4	821.0
35°	746.4	753.9	772.5	789.3	796.8
37.5°	716.5	724.0	744.5	765.0	774.4
40°	682.9	692.3	716.5	738.9	752.0
42.5°	651.2	660.6	684.8	714.7	727.7
45°	615.8	625.1	655.0	688.5	705.3
47.5°	578.5	589.6	625.1	666.2	682.9
50°	541.1	554.2	593.4	640.0	658.7
52.5°	501.9	518.7	563.5	613.9	636.3
55°	460.9	481.4	533.7	587.8	610.2
57.5°	421.7	440.4	501.9	559.8	584.0
60°	378.8	403.0	472.1	531.8	557.9
62.5°	337.7	363.9	440.4	503.8	531.8
65°	302.3	328.4	406.8	474.0	503.8
67.5°	255.6	291.1	378.8	442.2	472.1
70°	209.0	257.5	343.3	408.6	436.6
72.5°	173.5	220.2	307.9	373.2	399.3
75°	132.5	184.7	270.6	326.5	343.3
77.5°	98.9	153.0	231.4	259.4	261.2
80°	72.8	117.6	175.4	184.7	192.2
82.5°	50.4	82.1	113.8	125.0	128.8
85°	31.7	48.5	65.3	70.9	70.9
87.5°	16.8	18.7	22.4	22.4	22.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)