

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: P308214

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-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: P308214  
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: 22FCZ2-34HE-UNV-L82765-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: 2218.0 lumens  
Efficiency: N/A  
Efficacy: 80.9 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

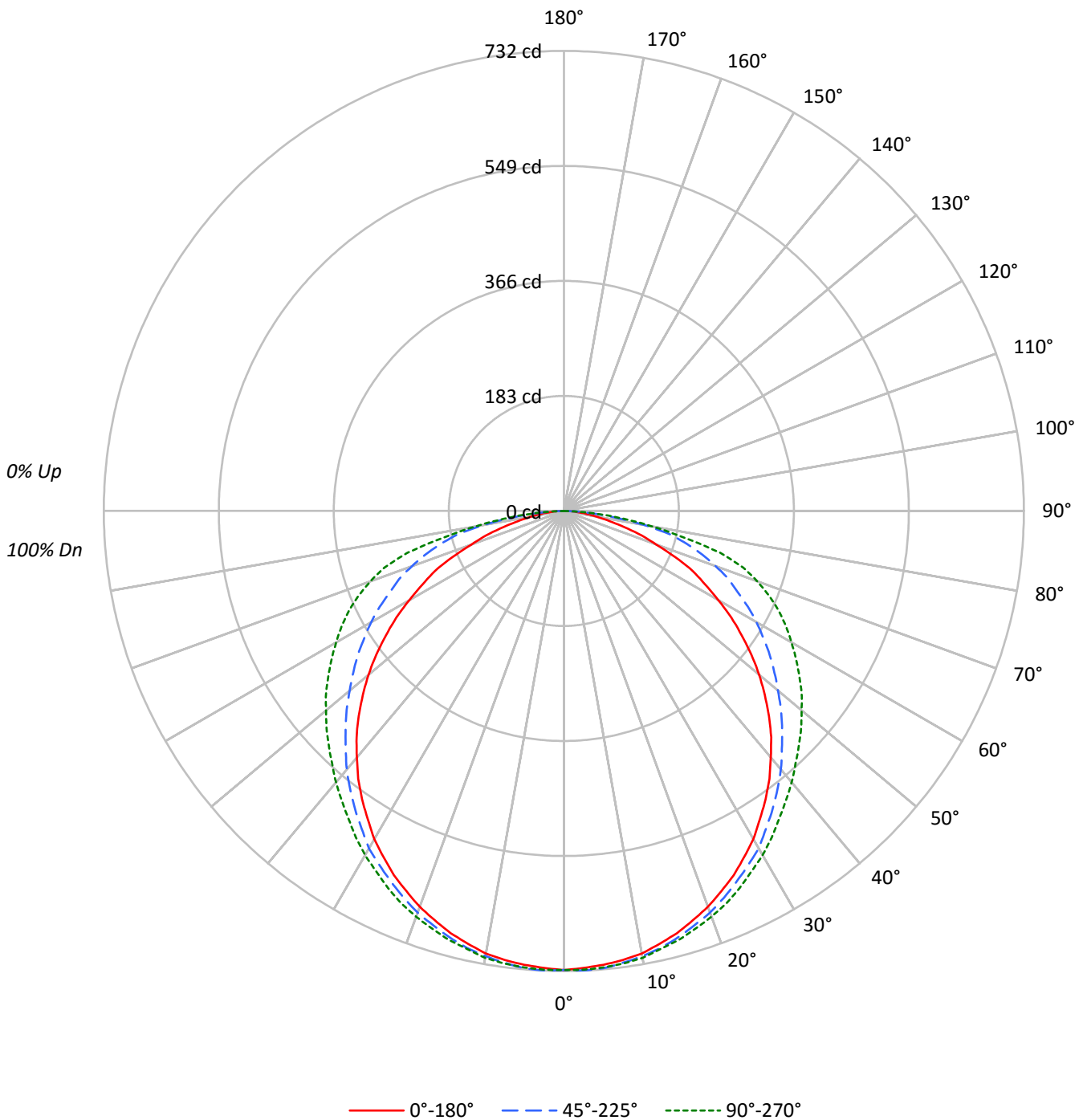
Input Watts (W): 27.4  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1965	1965	1965
5°	1958	1973	1969
10°	1954	1965	1973
15°	1937	1957	1969
20°	1919	1947	1967
25°	1898	1932	1965
30°	1874	1926	1965
35°	1839	1903	1963
40°	1799	1887	1981
45°	1757	1869	2013
50°	1699	1863	2068
55°	1621	1878	2146
60°	1528	1905	2251
65°	1443	1942	2406
70°	1233	2025	2576
75°	1032	2110	2676
80°	846	2038	2233
85°	735	1513	1643



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.2	3.1
10°-20°	198.0	8.9
20°-30°	300.1	13.5
30°-40°	362.3	16.3
40°-50°	380.7	17.2
50°-60°	358.2	16.2
60°-70°	298.7	13.5
70°-80°	197.9	8.9
80°-90°	52.8	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°	567.3	25.6
0°-40°	929.7	41.9
0°-60°	1668.6	75.2
0°-90°	2218.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2218.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	730	730	730	730	730	
5°	725	726	730	730	729	69
15°	695	698	702	705	707	196
25°	639	644	651	659	662	294
35°	560	565	579	592	597	350
45°	462	469	491	516	529	356
55°	346	361	400	441	458	309
65°	227	246	305	355	378	221
75°	99	138	203	245	257	108
85°	24	36	49	53	53	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	730.4	730.4	730.4	730.4	730.4
2.5°	727.6	729.0	731.8	731.8	730.4
5°	724.8	726.2	730.4	730.4	729.0
7.5°	720.6	722.0	724.8	727.6	726.2
10°	715.0	716.4	719.2	722.0	722.0
12.5°	705.2	706.6	712.2	713.6	713.6
15°	695.4	698.2	702.4	705.2	706.6
17.5°	682.8	685.6	691.2	696.8	696.8
20°	670.2	673.0	680.0	685.6	687.0
22.5°	654.8	659.0	666.0	673.0	675.8
25°	639.4	643.6	650.6	659.0	661.8
27.5°	621.2	625.4	635.2	645.0	646.4
30°	603.0	607.2	619.8	628.2	632.4
32.5°	580.7	586.2	598.8	611.4	615.6
35°	559.7	565.3	579.3	591.8	597.4
37.5°	537.3	542.9	558.3	573.7	580.7
40°	512.1	519.1	537.3	554.1	563.9
42.5°	488.3	495.3	513.5	535.9	545.7
45°	461.7	468.7	491.1	516.3	528.9
47.5°	433.7	442.1	468.7	499.5	512.1
50°	405.8	415.6	444.9	479.9	493.9
52.5°	376.4	389.0	422.5	460.3	477.1
55°	345.6	361.0	400.2	440.7	457.5
57.5°	316.2	330.2	376.4	419.7	437.9
60°	284.0	302.2	354.0	398.8	418.3
62.5°	253.2	272.8	330.2	377.8	398.8
65°	226.7	246.3	305.0	355.4	377.8
67.5°	191.7	218.3	284.0	331.6	354.0
70°	156.7	193.1	257.4	306.4	327.4
72.5°	130.1	165.1	230.9	279.8	299.4
75°	99.3	138.5	202.9	244.9	257.4
77.5°	74.2	114.7	173.5	194.5	195.9
80°	54.6	88.1	131.5	138.5	144.1
82.5°	37.8	61.6	85.3	93.7	96.5
85°	23.8	36.4	49.0	53.2	53.2
87.5°	12.6	14.0	16.8	16.8	16.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)