

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: P308218

Luminaire Tested: **22FCZ2-34HE-UNV-L82765-HRP-CP125-W2A-U-5000K**

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: P308218  
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-5000K  
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**

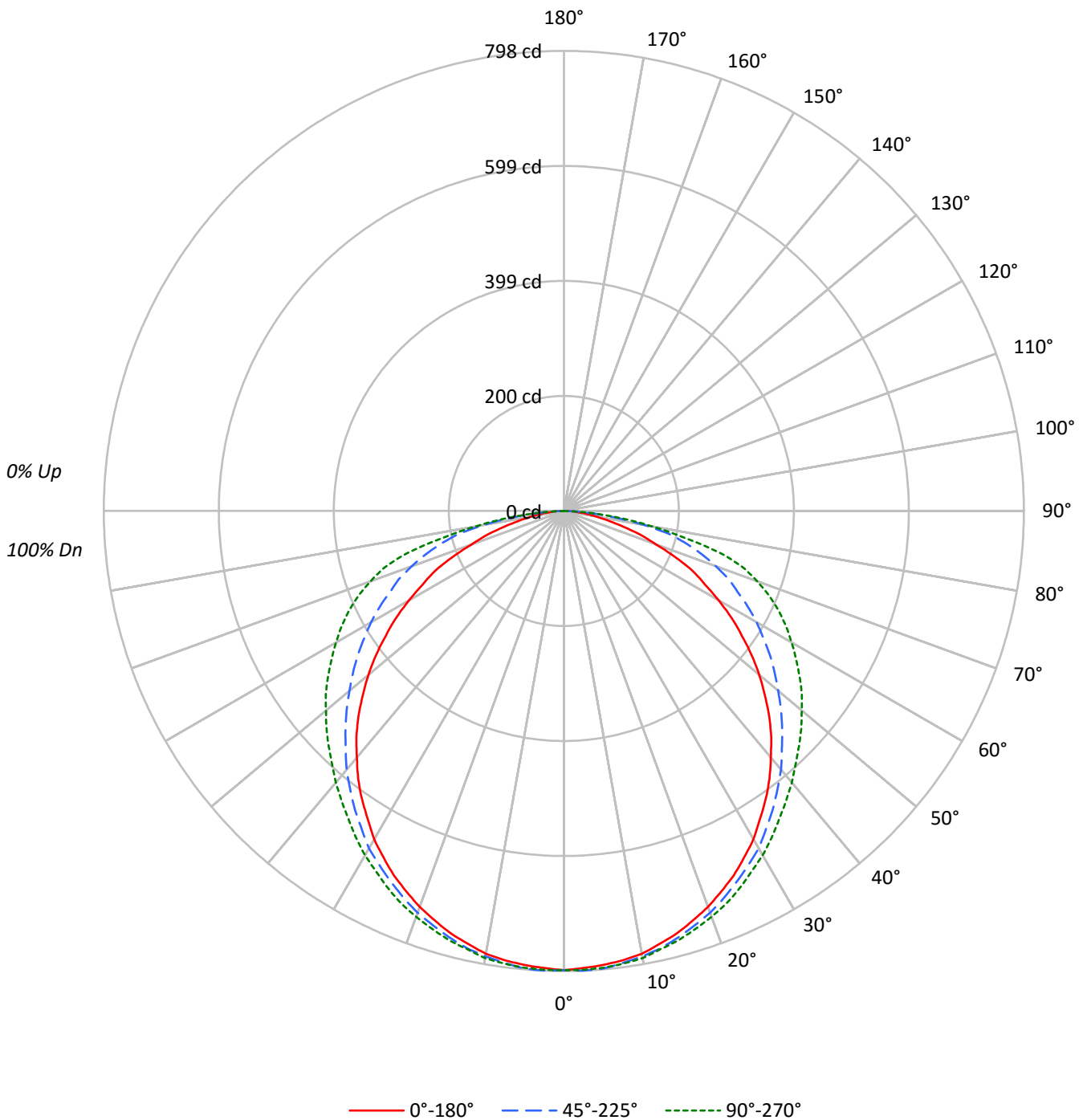
Lumens per Lamp: N/A  
Luminaire Lumens: 2419.0 lumens  
Efficiency: N/A  
Efficacy: 85.8 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.29 / 1.38  
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 28.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	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°	2143	2143	2143
5°	2135	2152	2148
10°	2131	2143	2152
15°	2113	2134	2147
20°	2093	2124	2145
25°	2071	2107	2143
30°	2044	2101	2143
35°	2005	2075	2141
40°	1962	2059	2160
45°	1917	2038	2195
50°	1852	2032	2255
55°	1768	2047	2341
60°	1667	2078	2456
65°	1574	2118	2623
70°	1345	2209	2810
75°	1126	2301	2920
80°	922	2222	2436
85°	800	1649	1791



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.5	3.1
10°-20°	215.9	8.9
20°-30°	327.3	13.5
30°-40°	395.2	16.3
40°-50°	415.3	17.2
50°-60°	390.7	16.2
60°-70°	325.8	13.5
70°-80°	215.9	8.9
80°-90°	57.5	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°	618.7	25.6
0°-40°	1013.9	41.9
0°-60°	1819.9	75.2
0°-90°	2419.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2419.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	796	796	796	796	796	
5°	790	792	796	796	795	75
15°	758	762	766	769	771	214
25°	697	702	710	719	722	321
35°	610	616	632	646	652	382
45°	504	511	536	563	577	388
55°	377	394	436	481	499	337
65°	247	269	333	388	412	241
75°	108	151	221	267	281	118
85°	26	40	53	58	58	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	796.5	796.5	796.5	796.5	796.5
2.5°	793.5	795.0	798.1	798.1	796.5
5°	790.4	792.0	796.5	796.5	795.0
7.5°	785.9	787.4	790.4	793.5	792.0
10°	779.8	781.3	784.3	787.4	787.4
12.5°	769.1	770.6	776.7	778.2	778.2
15°	758.4	761.5	766.0	769.1	770.6
17.5°	744.7	747.7	753.8	759.9	759.9
20°	730.9	734.0	741.6	747.7	749.2
22.5°	714.1	718.7	726.4	734.0	737.0
25°	697.4	701.9	709.6	718.7	721.8
27.5°	677.5	682.1	692.8	703.5	705.0
30°	657.7	662.3	676.0	685.2	689.7
32.5°	633.3	639.4	653.1	666.8	671.4
35°	610.4	616.5	631.7	645.5	651.6
37.5°	586.0	592.1	608.9	625.6	633.3
40°	558.5	566.1	586.0	604.3	615.0
42.5°	532.6	540.2	560.0	584.4	595.1
45°	503.6	511.2	535.6	563.1	576.8
47.5°	473.0	482.2	511.2	544.8	558.5
50°	442.5	453.2	485.3	523.4	538.7
52.5°	410.5	424.2	460.8	502.0	520.4
55°	376.9	393.7	436.4	480.7	499.0
57.5°	344.9	360.1	410.5	457.8	477.6
60°	309.8	329.6	386.1	434.9	456.3
62.5°	276.2	297.6	360.1	412.0	434.9
65°	247.2	268.6	332.7	387.6	412.0
67.5°	209.1	238.0	309.8	361.7	386.1
70°	170.9	210.6	280.8	334.2	357.1
72.5°	141.9	180.1	251.8	305.2	326.6
75°	108.3	151.1	221.3	267.0	280.8
77.5°	80.9	125.1	189.2	212.1	213.6
80°	59.5	96.1	143.4	151.1	157.2
82.5°	41.2	67.1	93.1	102.2	105.3
85°	25.9	39.7	53.4	58.0	58.0
87.5°	13.7	15.3	18.3	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)