

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: P307125

Luminaire Tested: **14FCZ2-35-UNV-L82765-HRP-CA125-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: P307125  
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: 14FCZ2-35-UNV-L82765-HRP-CA125-W2A-U-3000K  
Description: 1'X4' TROFFER LED MODULE, HIGH EFFICIENCY RND PERF. LENS, 0.125" ACRYLIC 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: 2404.0 lumens  
Efficiency: N/A  
Efficacy: 82.0 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

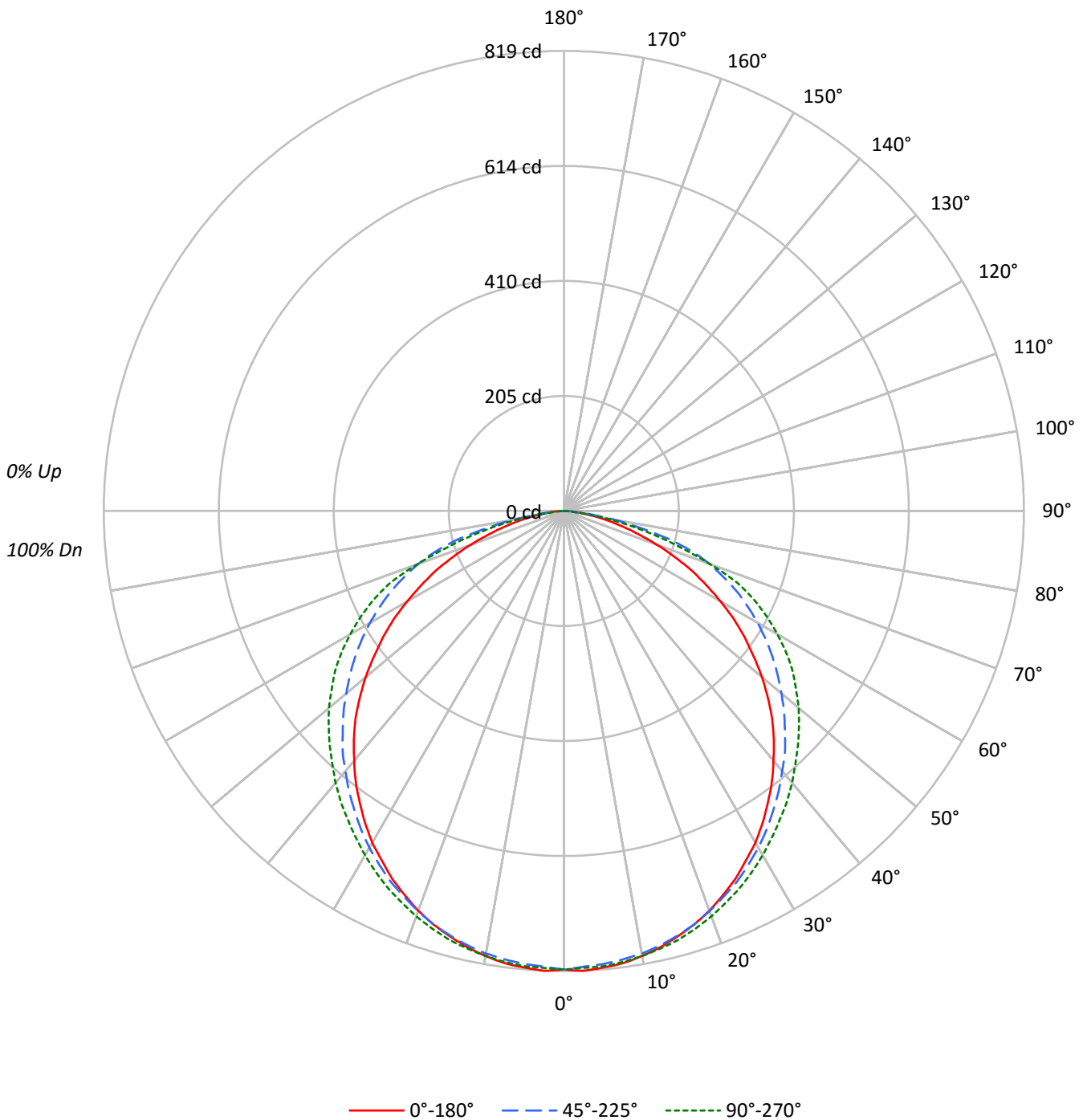
Input Watts (W): 29.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2197	2197	2197
5°	2203	2187	2197
10°	2198	2185	2198
15°	2184	2180	2201
20°	2169	2171	2199
25°	2146	2164	2200
30°	2119	2151	2199
35°	2081	2136	2203
40°	2040	2124	2220
45°	1996	2117	2244
50°	1927	2117	2285
55°	1844	2128	2334
60°	1733	2144	2364
65°	1598	2166	2378
70°	1392	2171	2189
75°	1148	2020	1769
80°	902	1452	1182
85°	701	559	281



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.3	3.2
10°-20°	221.8	9.2
20°-30°	336.8	14.0
30°-40°	408.1	17.0
40°-50°	430.0	17.9
50°-60°	401.5	16.7
60°-70°	320.8	13.3
70°-80°	176.5	7.3
80°-90°	31.2	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°	635.9	26.5
0°-40°	1044.0	43.4
0°-60°	1875.4	78.0
0°-90°	2404.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2404.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	816	816	816	816	816	
5°	816	813	810	815	813	78
15°	784	784	782	790	790	221
25°	723	724	729	739	741	333
35°	634	640	650	667	670	396
45°	525	534	556	581	590	404
55°	393	413	454	485	497	351
65°	251	283	340	368	373	247
75°	110	158	194	175	170	119
85°	23	29	18	11	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	816.4	816.4	816.4	816.4	816.4
2.5°	819.4	817.2	811.9	816.4	814.1
5°	815.7	813.4	809.6	814.9	813.4
7.5°	811.9	808.9	805.1	811.1	809.6
10°	804.3	802.0	799.8	805.1	804.3
12.5°	795.2	794.5	792.2	798.3	797.5
15°	783.9	783.9	782.4	790.0	790.0
17.5°	771.8	771.1	771.8	780.1	779.4
20°	757.4	757.4	758.2	768.0	768.0
22.5°	740.1	740.8	743.1	755.2	754.4
25°	722.7	724.2	728.7	739.3	740.8
27.5°	701.5	705.3	710.6	723.4	724.9
30°	681.9	684.1	692.4	704.5	707.6
32.5°	658.4	663.0	672.0	685.6	689.4
35°	633.5	639.5	650.1	666.7	670.5
37.5°	608.5	613.8	628.2	645.6	652.4
40°	580.6	589.6	604.7	624.4	632.0
42.5°	553.3	562.4	582.8	603.2	610.0
45°	524.6	534.4	556.4	581.3	589.6
47.5°	492.9	504.2	532.2	558.6	567.7
50°	460.4	474.7	505.7	535.2	545.8
52.5°	426.3	444.5	480.0	511.0	520.8
55°	393.1	412.7	453.6	485.3	497.4
57.5°	359.1	380.2	426.3	462.6	469.4
60°	322.0	347.7	398.4	430.1	439.2
62.5°	285.7	315.2	369.7	399.9	407.4
65°	251.0	282.7	340.2	368.1	373.4
67.5°	213.2	251.0	307.7	333.4	334.9
70°	176.9	220.7	275.9	288.0	278.2
72.5°	141.4	188.2	238.9	229.0	220.7
75°	110.4	158.0	194.3	174.6	170.1
77.5°	81.6	129.3	139.1	128.5	120.2
80°	58.2	102.1	93.7	80.1	76.3
82.5°	40.1	64.3	51.4	40.1	34.8
85°	22.7	28.7	18.1	11.3	9.1
87.5°	9.8	6.8	3.8	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)