

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: P307852

Luminaire Tested: **14FCZ2-25-UNV-L82765-S-CA125-W2A-U-6500K**

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: P307852  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-40)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: 14FCZ2-25-UNV-L82765-S-CA125-W2A-U-6500K  
Description: 1'X4' TROFFER LED MODULE,SMOOTH LENS,0.125" ACRYLIC SHEET  
Light Source: (168) 6500K 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**

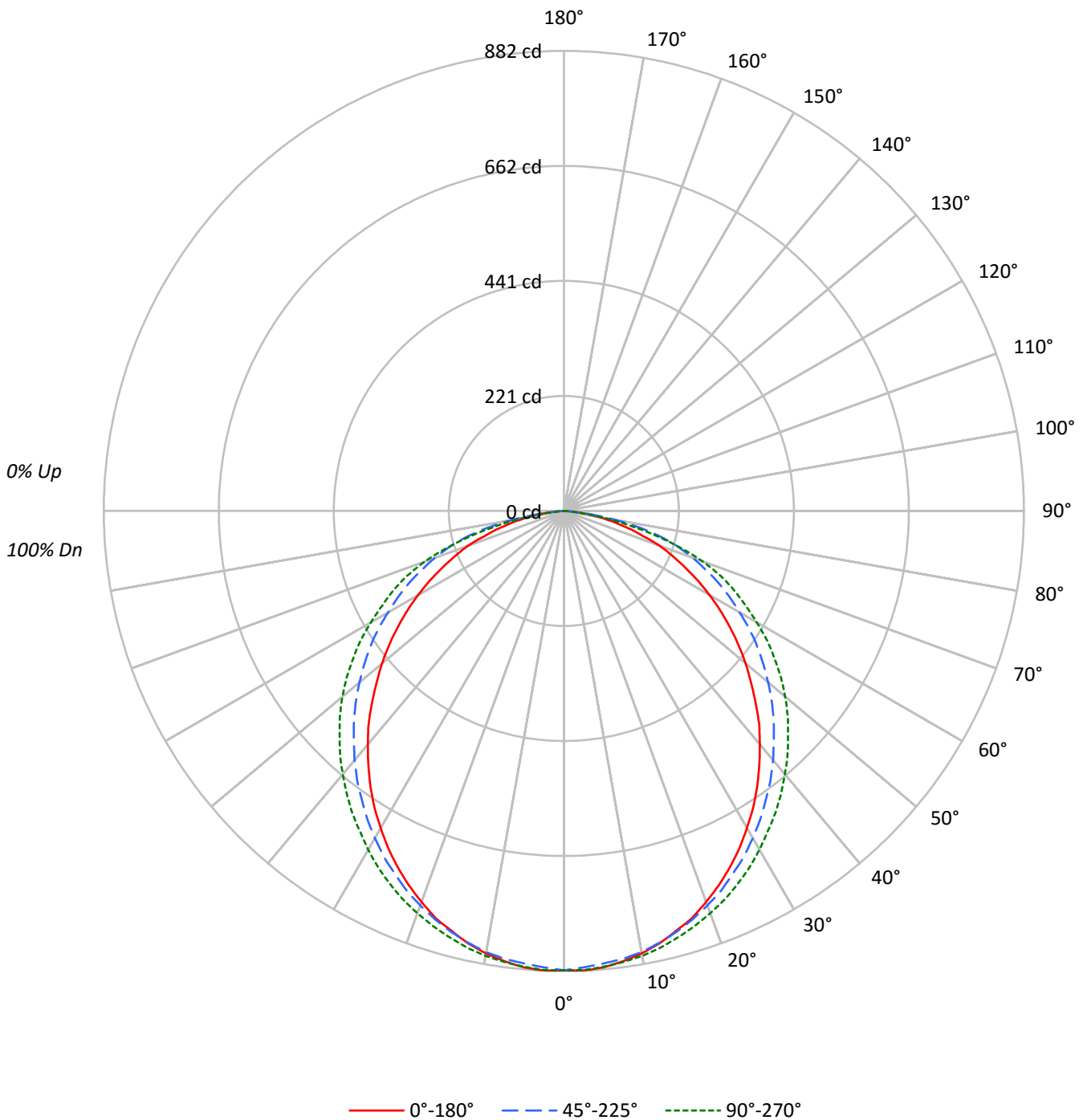
Lumens per Lamp: N/A  
Luminaire Lumens: 2467.0 lumens  
Efficiency: N/A  
Efficacy: 120.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.26 / 1.36  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 20.5  
Input Voltage (V): NR  
Input Current (A<sub>in</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	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84
2	99	90	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70
3	90	79	71	65	87	78	70	64	75	68	63	72	66	62	69	65	61	58
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	28	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2370	2370	2370
5°	2372	2353	2369
10°	2353	2346	2366
15°	2321	2327	2358
20°	2284	2305	2350
25°	2237	2277	2342
30°	2182	2250	2330
35°	2122	2218	2323
40°	2054	2191	2316
45°	1978	2165	2313
50°	1905	2141	2320
55°	1825	2123	2312
60°	1738	2094	2298
65°	1636	2087	2297
70°	1540	2069	2233
75°	1335	2022	1908
80°	1080	1630	1271
85°	716	565	377



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	83.2	3.4
10°-20°	236.6	9.6
20°-30°	355.0	14.4
30°-40°	423.4	17.2
40°-50°	437.8	17.7
50°-60°	399.7	16.2
60°-70°	314.5	12.7
70°-80°	183.1	7.4
80°-90°	33.7	1.4
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°	674.8	27.4
0°-40°	1098.2	44.5
0°-60°	1935.7	78.5
0°-90°	2467.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2467.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	881	881	881	881	881	
5°	878	876	871	878	877	83
15°	833	834	835	846	846	235
25°	754	757	767	785	789	347
35°	646	654	675	701	707	404
45°	520	537	569	601	608	401
55°	389	410	453	486	493	348
65°	257	284	328	354	361	255
75°	128	159	194	191	184	137
85°	23	33	18	15	12	30
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	880.7	880.7	880.7	880.7	880.7
2.5°	881.9	879.5	875.8	881.9	880.7
5°	878.2	875.8	870.9	878.2	877.0
7.5°	870.9	868.4	866.0	873.3	872.1
10°	861.1	859.9	858.7	867.2	866.0
12.5°	848.9	848.9	847.7	857.4	857.4
15°	833.0	834.2	835.4	846.4	846.4
17.5°	818.3	817.1	820.7	833.0	834.2
20°	797.5	799.9	804.8	819.5	820.7
22.5°	776.7	779.2	787.7	802.4	806.1
25°	753.5	757.1	766.9	785.3	788.9
27.5°	729.0	733.9	747.4	766.9	770.6
30°	702.1	709.4	724.1	746.1	749.8
32.5°	675.2	682.5	700.9	722.9	727.8
35°	645.8	654.4	675.2	700.9	707.0
37.5°	615.3	626.3	650.7	676.4	683.7
40°	584.7	596.9	623.8	650.7	659.3
42.5°	554.1	566.3	595.7	626.3	634.8
45°	519.8	537.0	568.8	600.6	607.9
47.5°	486.8	505.2	540.6	572.4	582.2
50°	455.0	473.4	511.3	544.3	554.1
52.5°	422.0	441.6	481.9	516.2	524.7
55°	389.0	409.8	452.6	485.6	492.9
57.5°	355.9	378.0	422.0	453.8	462.4
60°	322.9	346.2	389.0	420.8	426.9
62.5°	289.9	314.4	358.4	386.5	392.6
65°	256.9	283.8	327.8	353.5	360.8
67.5°	225.1	252.0	294.8	319.2	325.4
70°	195.7	220.2	263.0	281.3	283.8
72.5°	159.0	189.6	231.2	241.0	234.8
75°	128.4	159.0	194.5	190.8	183.5
77.5°	97.9	128.4	151.7	139.4	129.7
80°	69.7	100.3	105.2	86.8	82.0
82.5°	45.3	69.7	58.7	45.3	36.7
85°	23.2	33.0	18.3	14.7	12.2
87.5°	7.3	4.9	2.4	2.4	1.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)