

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: P307425

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP250-W2A-U-4500K**

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: P307425  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-43)  
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-RDP-CP250-W2A-U-4500K  
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET  
Light Source: (168) 4500K 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**

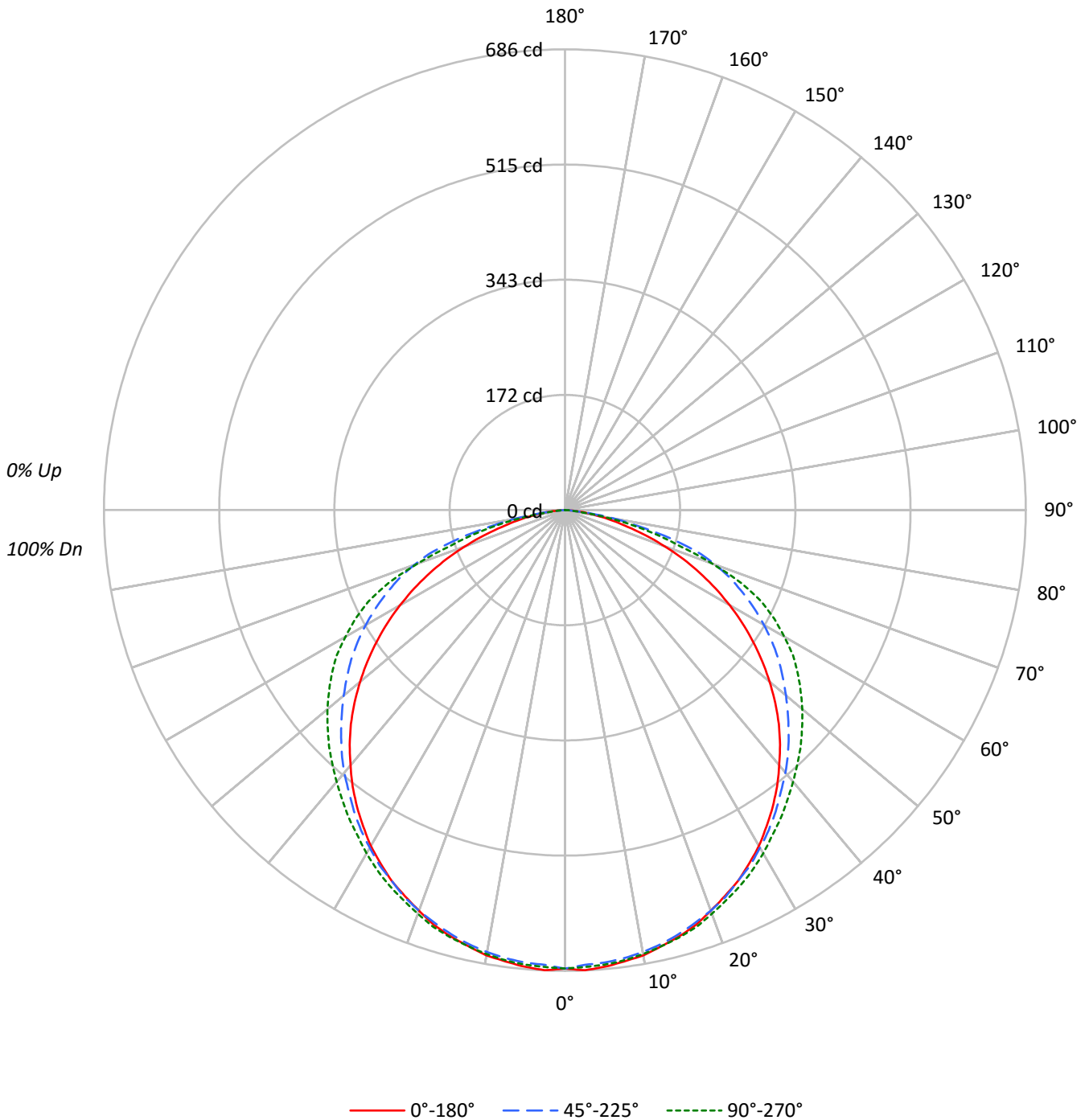
Lumens per Lamp: N/A  
Luminaire Lumens: 2038.0 lumens  
Efficiency: N/A  
Efficacy: 67.7 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4  
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 30.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
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	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	63	74	68	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	53	66	58	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	50	42	35	62	50	41	35	48	40	35	47	40	35	45	39	34	32
8	60	46	37	31	58	45	37	31	44	36	31	43	36	31	41	35	31	29
9	56	42	34	28	54	42	34	28	40	33	28	39	33	28	38	32	28	26
10	52	39	31	25	51	38	31	25	37	30	25	36	30	25	35	29	25	23

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

	0°	45°	90°
0°	1837	1837	1837
5°	1844	1827	1835
10°	1839	1826	1835
15°	1831	1822	1835
20°	1818	1818	1832
25°	1809	1809	1833
30°	1795	1804	1834
35°	1772	1798	1840
40°	1744	1794	1855
45°	1714	1792	1889
50°	1665	1798	1932
55°	1605	1821	1985
60°	1524	1841	2030
65°	1408	1864	2057
70°	1252	1878	1840
75°	1010	1687	1472
80°	789	1184	962
85°	540	343	247



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	3.2
10°-20°	185.4	9.1
20°-30°	282.2	13.8
30°-40°	343.8	16.9
40°-50°	364.7	17.9
50°-60°	344.2	16.9
60°-70°	277.9	13.6
70°-80°	150.8	7.4
80°-90°	24.4	1.2
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°	532.2	26.1
0°-40°	876.0	43.0
0°-60°	1584.9	77.8
0°-90°	2038.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2038.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	683	683	683	683	683	
5°	683	681	676	681	679	65
15°	657	656	654	659	659	185
25°	609	608	609	616	617	281
35°	539	543	547	558	560	337
45°	450	457	471	488	496	347
55°	342	356	388	414	423	306
65°	221	248	293	317	323	219
75°	97	142	162	146	142	106
85°	18	19	11	10	8	23
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	682.6	682.6	682.6	682.6	682.6
2.5°	685.8	682.6	677.8	682.6	681.0
5°	682.6	681.0	676.2	681.0	679.4
7.5°	677.8	677.8	673.0	676.2	676.2
10°	673.0	671.4	668.3	673.0	671.4
12.5°	665.1	663.5	661.9	666.7	665.1
15°	657.1	655.5	653.9	658.7	658.7
17.5°	647.6	646.0	644.4	650.8	650.8
20°	634.8	634.8	634.8	641.2	639.6
22.5°	622.1	622.1	623.7	630.1	628.5
25°	609.4	607.8	609.4	615.8	617.3
27.5°	593.5	595.1	596.7	603.0	604.6
30°	577.6	579.2	580.7	588.7	590.3
32.5°	558.5	561.7	564.8	574.4	574.4
35°	539.4	542.6	547.3	558.5	560.1
37.5°	518.7	521.9	528.2	541.0	544.2
40°	496.4	501.2	510.7	523.5	528.2
42.5°	474.1	480.5	491.6	506.0	512.3
45°	450.3	456.6	471.0	488.5	496.4
47.5°	424.8	432.8	450.3	472.6	478.9
50°	397.8	408.9	429.6	453.5	461.4
52.5°	370.7	383.5	408.9	434.4	442.3
55°	342.1	356.4	388.2	413.7	423.2
57.5°	313.4	329.4	366.0	393.0	402.5
60°	283.2	302.3	342.1	369.1	377.1
62.5°	253.0	275.3	318.2	345.3	351.6
65°	221.2	248.2	292.8	316.6	323.0
67.5°	190.9	222.8	267.3	284.8	284.8
70°	159.1	194.1	238.7	243.4	233.9
72.5°	127.3	167.1	206.8	189.3	181.4
75°	97.1	141.6	162.3	146.4	141.6
77.5°	73.2	114.6	114.6	105.0	101.8
80°	50.9	87.5	76.4	66.8	62.1
82.5°	33.4	49.3	39.8	31.8	27.0
85°	17.5	19.1	11.1	9.5	8.0
87.5°	6.4	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)