

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: P307427

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP250-W2A-U-5500K**

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: P307427
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-5500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET
Light Source: (168) 5500K 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: 2086.0 lumens
Efficiency: N/A
Efficacy: 68.8 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

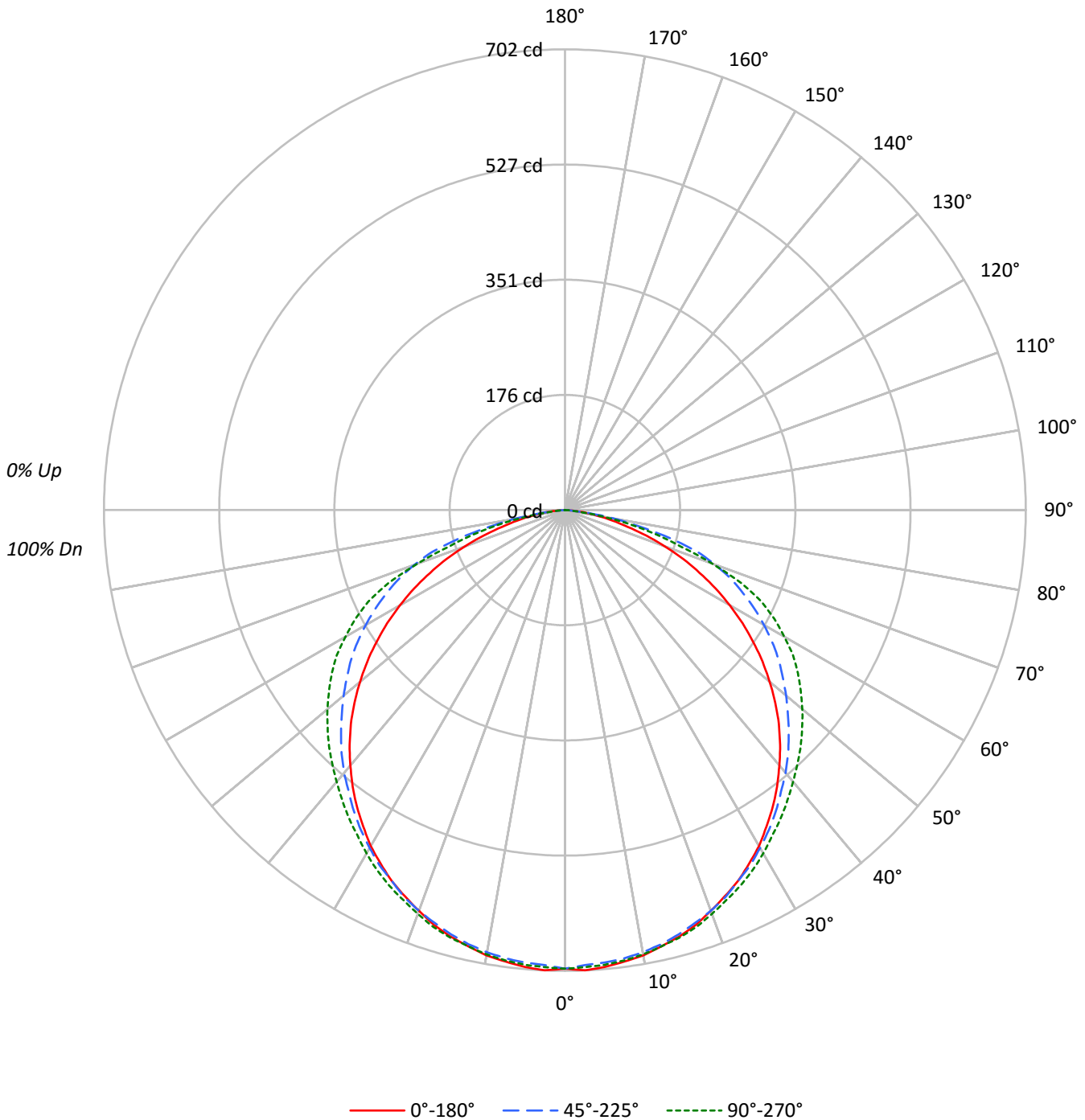
Input Watts (W): 30.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1880	1880	1880
5°	1887	1870	1878
10°	1882	1869	1878
15°	1874	1865	1878
20°	1861	1861	1875
25°	1852	1852	1876
30°	1837	1847	1877
35°	1814	1840	1883
40°	1785	1837	1899
45°	1754	1835	1934
50°	1704	1841	1977
55°	1643	1864	2032
60°	1560	1884	2077
65°	1442	1908	2105
70°	1282	1922	1884
75°	1032	1727	1507
80°	807	1212	984
85°	553	352	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.1	3.2
10°-20°	189.7	9.1
20°-30°	288.9	13.8
30°-40°	351.9	16.9
40°-50°	373.3	17.9
50°-60°	352.3	16.9
60°-70°	284.5	13.6
70°-80°	154.3	7.4
80°-90°	25.0	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°	544.7	26.1
0°-40°	896.6	43.0
0°-60°	1622.2	77.8
0°-90°	2086.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2086.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	699	699	699	699	699	
5°	699	697	692	697	695	66
15°	673	671	669	674	674	190
25°	624	622	624	630	632	287
35°	552	555	560	572	573	345
45°	461	467	482	500	508	355
55°	350	365	397	423	433	313
65°	226	254	300	324	331	224
75°	99	145	166	150	145	109
85°	18	20	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°	698.7	698.7	698.7	698.7	698.7
2.5°	701.9	698.7	693.8	698.7	697.0
5°	698.7	697.0	692.1	697.0	695.4
7.5°	693.8	693.8	688.9	692.1	692.1
10°	688.9	687.3	684.0	688.9	687.3
12.5°	680.7	679.1	677.5	682.4	680.7
15°	672.6	671.0	669.3	674.2	674.2
17.5°	662.8	661.2	659.6	666.1	666.1
20°	649.8	649.8	649.8	656.3	654.7
22.5°	636.8	636.8	638.4	644.9	643.3
25°	623.7	622.1	623.7	630.3	631.9
27.5°	607.5	609.1	610.7	617.2	618.9
30°	591.2	592.8	594.4	602.6	604.2
32.5°	571.6	574.9	578.1	587.9	587.9
35°	552.1	555.3	560.2	571.6	573.3
37.5°	530.9	534.2	540.7	553.7	557.0
40°	508.1	513.0	522.8	535.8	540.7
42.5°	485.3	491.8	503.2	517.9	524.4
45°	460.9	467.4	482.1	500.0	508.1
47.5°	434.8	443.0	460.9	483.7	490.2
50°	407.1	418.5	439.7	464.1	472.3
52.5°	379.5	392.5	418.5	444.6	452.7
55°	350.1	364.8	397.4	423.4	433.2
57.5°	320.8	337.1	374.6	402.3	412.0
60°	289.9	309.4	350.1	377.8	386.0
62.5°	258.9	281.7	325.7	353.4	359.9
65°	226.4	254.1	299.7	324.1	330.6
67.5°	195.4	228.0	273.6	291.5	291.5
70°	162.9	198.7	244.3	249.2	239.4
72.5°	130.3	171.0	211.7	193.8	185.7
75°	99.3	144.9	166.1	149.8	144.9
77.5°	74.9	117.3	117.3	107.5	104.2
80°	52.1	89.6	78.2	68.4	63.5
82.5°	34.2	50.5	40.7	32.6	27.7
85°	17.9	19.5	11.4	9.8	8.1
87.5°	6.5	3.3	1.6	3.3	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)