

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: P307426

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP250-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: P307426
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-5000K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB SHEET
Light Source: (168) 5000K 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: 2066.0 lumens
Efficiency: N/A
Efficacy: 68.4 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

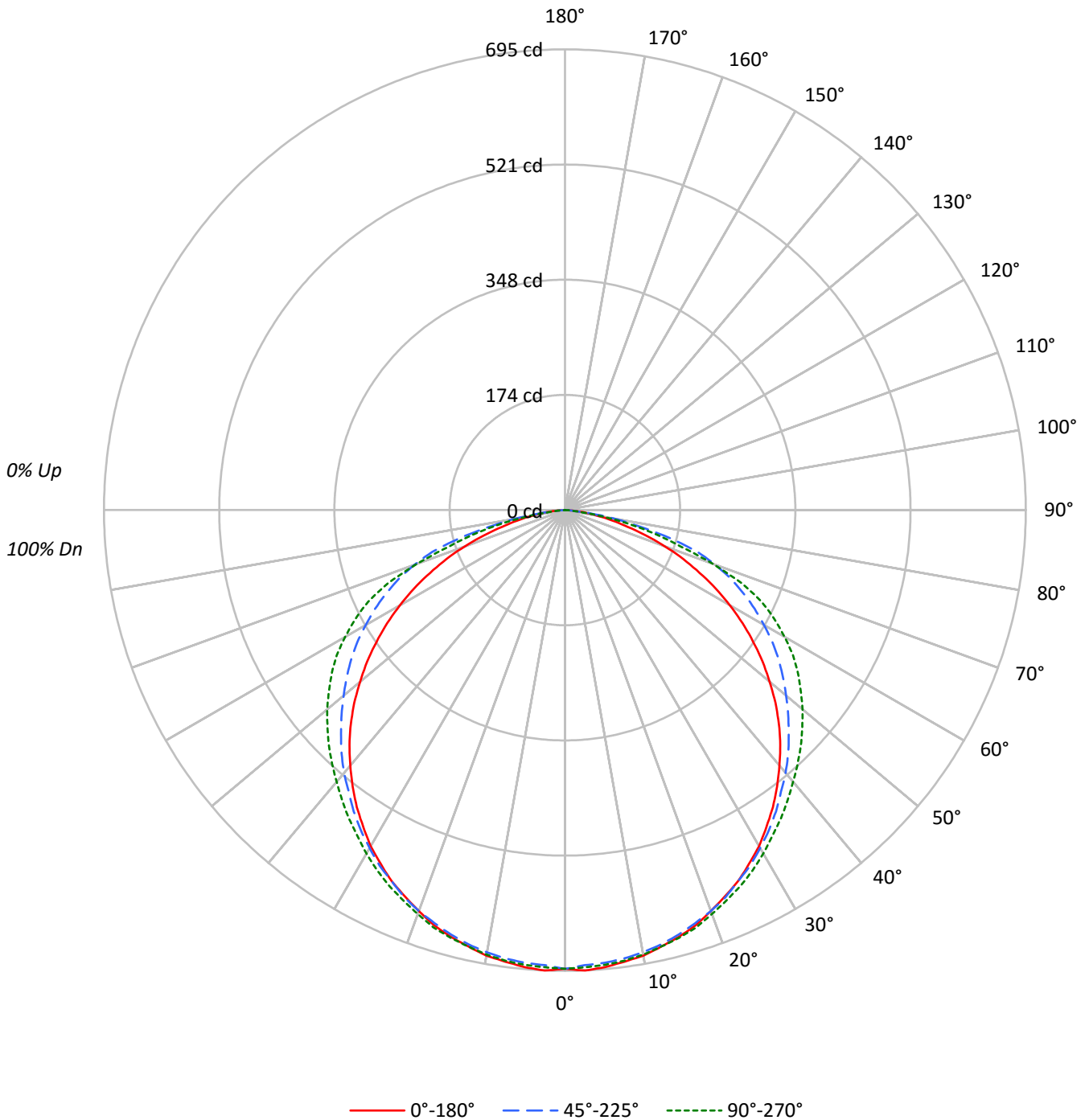
Input Watts (W): 30.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1862	1862	1862
5°	1869	1852	1860
10°	1864	1851	1860
15°	1856	1847	1860
20°	1843	1843	1857
25°	1834	1834	1858
30°	1819	1829	1859
35°	1796	1823	1865
40°	1768	1819	1881
45°	1737	1817	1915
50°	1688	1823	1958
55°	1627	1847	2013
60°	1545	1866	2058
65°	1428	1890	2085
70°	1269	1903	1865
75°	1023	1710	1493
80°	800	1199	975
85°	546	349	250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	3.2
10°-20°	187.9	9.1
20°-30°	286.1	13.8
30°-40°	348.5	16.9
40°-50°	369.7	17.9
50°-60°	349.0	16.9
60°-70°	281.7	13.6
70°-80°	152.8	7.4
80°-90°	24.7	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°	539.5	26.1
0°-40°	888.0	43.0
0°-60°	1606.7	77.8
0°-90°	2066.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2066.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	692	690	686	690	689	66
15°	666	664	663	668	668	188
25°	618	616	618	624	626	284
35°	547	550	555	566	568	342
45°	456	463	477	495	503	352
55°	347	361	394	419	429	310
65°	224	252	297	321	327	222
75°	98	144	164	148	144	107
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°	692.0	692.0	692.0	692.0	692.0
2.5°	695.2	692.0	687.1	692.0	690.3
5°	692.0	690.3	685.5	690.3	688.7
7.5°	687.1	687.1	682.3	685.5	685.5
10°	682.3	680.7	677.4	682.3	680.7
12.5°	674.2	672.6	671.0	675.8	674.2
15°	666.1	664.5	662.9	667.8	667.8
17.5°	656.5	654.9	653.2	659.7	659.7
20°	643.6	643.6	643.6	650.0	648.4
22.5°	630.7	630.7	632.3	638.7	637.1
25°	617.8	616.1	617.8	624.2	625.8
27.5°	601.6	603.2	604.9	611.3	612.9
30°	585.5	587.1	588.7	596.8	598.4
32.5°	566.1	569.4	572.6	582.3	582.3
35°	546.8	550.0	554.9	566.1	567.8
37.5°	525.8	529.0	535.5	548.4	551.6
40°	503.2	508.1	517.8	530.7	535.5
42.5°	480.7	487.1	498.4	512.9	519.4
45°	456.5	462.9	477.4	495.2	503.2
47.5°	430.7	438.7	456.5	479.0	485.5
50°	403.2	414.5	435.5	459.7	467.8
52.5°	375.8	388.7	414.5	440.3	448.4
55°	346.8	361.3	393.6	419.4	429.0
57.5°	317.8	333.9	371.0	398.4	408.1
60°	287.1	306.5	346.8	374.2	382.3
62.5°	256.5	279.0	322.6	350.0	356.5
65°	224.2	251.6	296.8	321.0	327.4
67.5°	193.6	225.8	271.0	288.7	288.7
70°	161.3	196.8	241.9	246.8	237.1
72.5°	129.0	169.4	209.7	191.9	183.9
75°	98.4	143.6	164.5	148.4	143.6
77.5°	74.2	116.1	116.1	106.5	103.2
80°	51.6	88.7	77.4	67.7	62.9
82.5°	33.9	50.0	40.3	32.3	27.4
85°	17.7	19.4	11.3	9.7	8.1
87.5°	6.5	3.2	1.6	3.2	1.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)