

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: P307429

Luminaire Tested: **14FCZ2-35-UNV-L82765-RDP-CP250-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: P307429
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-6500K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.250" POLYCARB 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: 2097.0 lumens
Efficiency: N/A
Efficacy: 68.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

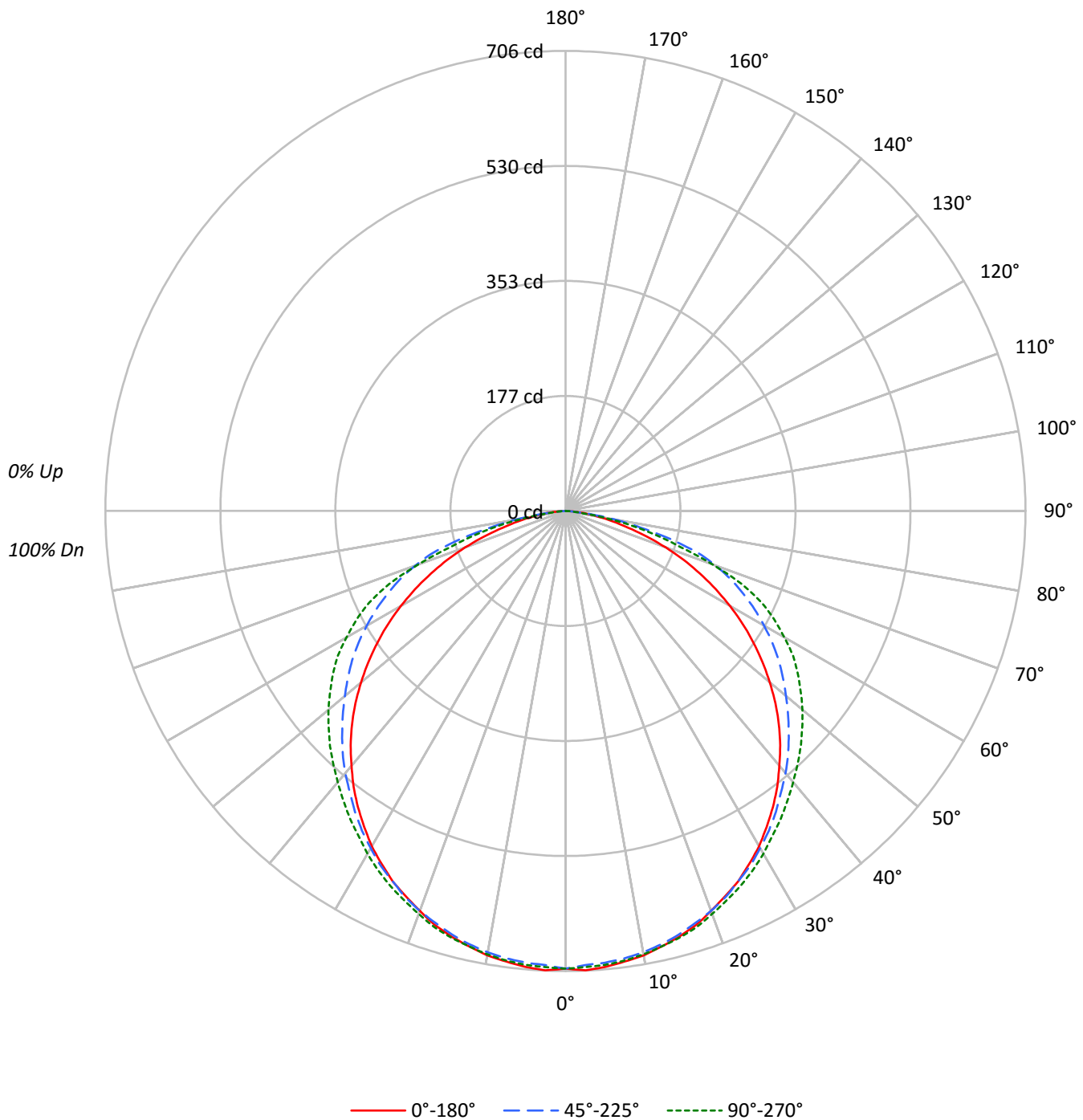
Input Watts (W): 30.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	109	104	100	96	106	102	98	94	97	94	91		93	91	88		84
2	99	90	83	77	96	88	82	76	85	79	75		81	77	73		69
3	90	79	71	64	87	77	70	63	74	68	62		71	66	61		58
4	82	70	61	54	80	68	60	53	66	58	53		63	57	52		49
5	75	62	53	46	73	61	52	46	59	51	45		57	50	45		42
6	69	56	47	40	67	55	46	40	53	45	40		51	44	39		37
7	64	50	42	35	62	50	41	35	48	40	35		47	40	35		32
8	60	46	37	31	58	45	37	31	44	36	31		43	36	31		29
9	56	42	34	28	54	42	34	28	40	33	28		39	33	28		26
10	52	39	31	25	51	38	31	25	37	30	25		36	30	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1890	1890	1890
5°	1897	1880	1888
10°	1892	1879	1888
15°	1884	1875	1888
20°	1871	1871	1885
25°	1862	1862	1886
30°	1847	1857	1887
35°	1823	1850	1893
40°	1794	1846	1909
45°	1763	1844	1944
50°	1714	1850	1988
55°	1651	1874	2043
60°	1568	1894	2088
65°	1449	1918	2116
70°	1288	1932	1894
75°	1039	1736	1515
80°	812	1218	989
85°	556	355	253



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	3.2
10°-20°	190.7	9.1
20°-30°	290.4	13.8
30°-40°	353.7	16.9
40°-50°	375.3	17.9
50°-60°	354.2	16.9
60°-70°	286.0	13.6
70°-80°	155.1	7.4
80°-90°	25.1	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°	547.6	26.1
0°-40°	901.3	43.0
0°-60°	1630.8	77.8
0°-90°	2097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	702	702	702	702	702	
5°	702	701	696	701	699	67
15°	676	674	673	678	678	191
25°	627	625	627	634	635	289
35°	555	558	563	575	576	347
45°	463	470	485	503	511	357
55°	352	367	400	426	436	314
65°	228	255	301	326	332	225
75°	100	146	167	151	146	109
85°	18	20	12	10	8	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	702.3	702.3	702.3	702.3	702.3
2.5°	705.6	702.3	697.4	702.3	700.7
5°	702.3	700.7	695.8	700.7	699.1
7.5°	697.4	697.4	692.5	695.8	695.8
10°	692.5	690.9	687.6	692.5	690.9
12.5°	684.3	682.7	681.1	686.0	684.3
15°	676.1	674.5	672.9	677.8	677.8
17.5°	666.3	664.7	663.0	669.6	669.6
20°	653.2	653.2	653.2	659.8	658.1
22.5°	640.1	640.1	641.8	648.3	646.7
25°	627.0	625.4	627.0	633.6	635.2
27.5°	610.7	612.3	613.9	620.5	622.1
30°	594.3	595.9	597.6	605.7	607.4
32.5°	574.6	577.9	581.2	591.0	591.0
35°	555.0	558.3	563.2	574.6	576.3
37.5°	533.7	537.0	543.5	556.6	559.9
40°	510.8	515.7	525.5	538.6	543.5
42.5°	487.9	494.4	505.9	520.6	527.2
45°	463.3	469.9	484.6	502.6	510.8
47.5°	437.1	445.3	463.3	486.2	492.8
50°	409.3	420.7	442.0	466.6	474.8
52.5°	381.5	394.6	420.7	446.9	455.1
55°	352.0	366.7	399.5	425.7	435.5
57.5°	322.5	338.9	376.5	404.4	414.2
60°	291.4	311.1	352.0	379.8	388.0
62.5°	260.3	283.2	327.4	355.3	361.8
65°	227.6	255.4	301.2	325.8	332.3
67.5°	196.5	229.2	275.0	293.1	293.1
70°	163.7	199.7	245.6	250.5	240.7
72.5°	131.0	171.9	212.8	194.8	186.6
75°	99.9	145.7	167.0	150.6	145.7
77.5°	75.3	117.9	117.9	108.1	104.8
80°	52.4	90.0	78.6	68.8	63.8
82.5°	34.4	50.8	40.9	32.7	27.8
85°	18.0	19.6	11.5	9.8	8.2
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)