

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: P307607

Luminaire Tested: **14FCZ2-25-UNV-L82765-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: P307607
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-49)
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-CP250-W2A-U-5500K
Description: 1'X4' TROFFER LED MODULE,RIBBED LENS, 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: 2262.0 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.28 / 1.37
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

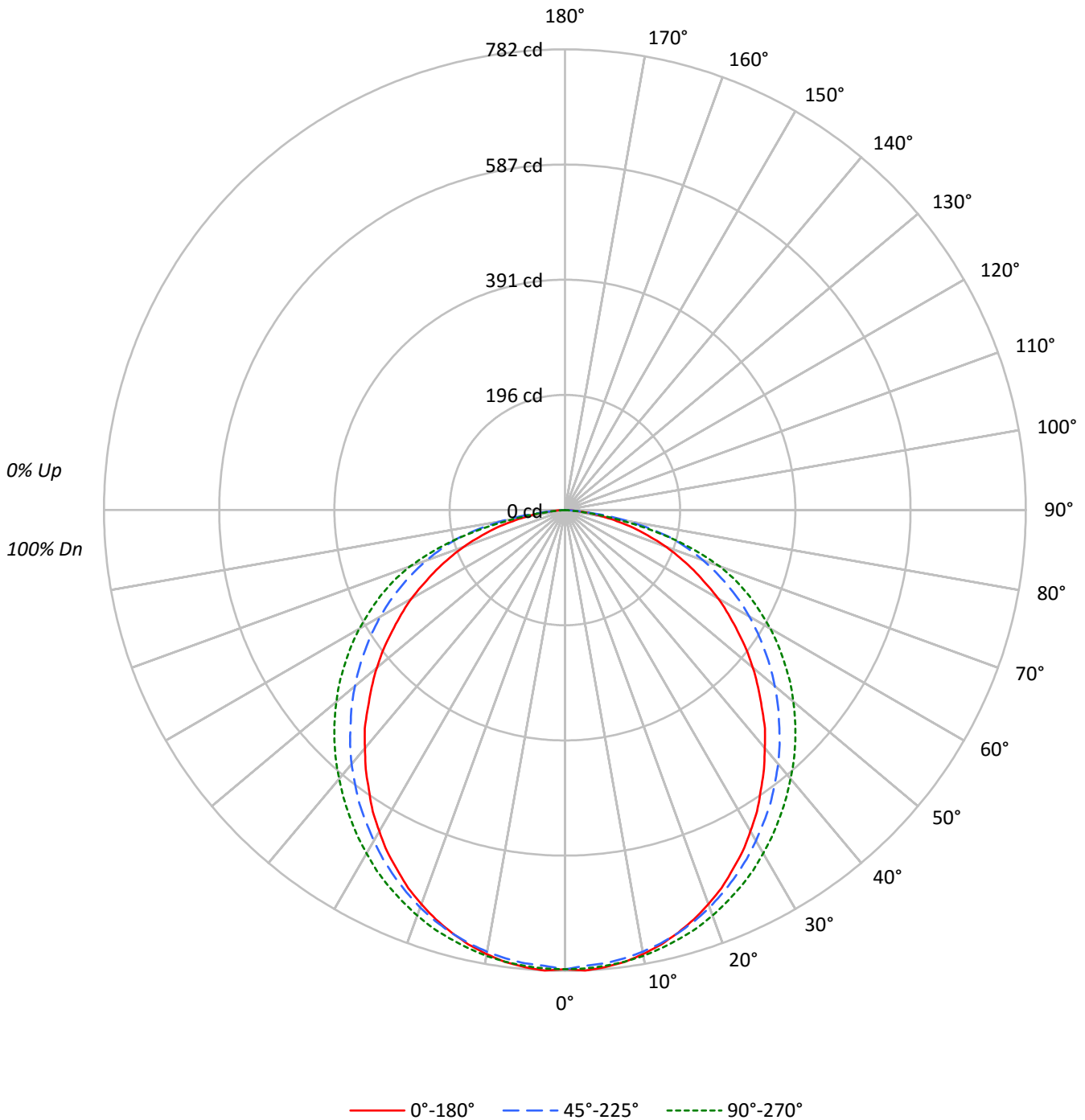
Input Watts (W): 20.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	99	95	106	101	97	94	97	94	91	93	90	88	90	87	85	83
2	98	90	83	77	96	88	82	76	84	79	74	81	77	73	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	79	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	34	32
8	60	46	37	32	58	45	37	31	44	37	31	43	36	31	42	35	31	29
9	56	42	34	28	54	42	34	28	41	33	28	39	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	37	30	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2097	2097	2097
5°	2104	2086	2098
10°	2091	2080	2099
15°	2068	2070	2098
20°	2038	2055	2097
25°	1999	2035	2095
30°	1956	2014	2091
35°	1904	1997	2089
40°	1853	1977	2093
45°	1797	1956	2104
50°	1744	1947	2118
55°	1678	1940	2137
60°	1618	1943	2166
65°	1535	1950	2200
70°	1441	1965	2198
75°	1306	1983	1988
80°	1071	1712	1415
85°	794	809	327



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	3.3
10°-20°	210.6	9.3
20°-30°	317.3	14.0
30°-40°	380.8	16.8
40°-50°	396.9	17.5
50°-60°	367.4	16.2
60°-70°	296.9	13.1
70°-80°	181.0	8.0
80°-90°	37.4	1.7
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°	601.7	26.6
0°-40°	982.5	43.4
0°-60°	1746.8	77.2
0°-90°	2262.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2262.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	779	779	779	779	779	
5°	779	777	772	778	777	74
15°	742	743	743	753	753	209
25°	673	677	686	703	706	310
35°	580	589	608	630	636	363
45°	472	486	514	543	553	365
55°	358	376	414	446	456	320
65°	241	265	306	337	346	238
75°	126	153	191	194	191	132
85°	26	38	26	15	11	32
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	779.3	779.3	779.3	779.3	779.3
2.5°	782.3	779.8	774.2	779.8	778.8
5°	778.8	776.7	772.2	777.8	776.7
7.5°	773.7	771.7	767.7	774.2	773.2
10°	765.1	764.1	761.1	768.7	768.2
12.5°	755.1	754.6	753.0	761.6	761.1
15°	742.4	743.0	743.0	753.0	753.0
17.5°	728.3	729.3	731.4	742.4	744.0
20°	711.7	713.7	717.7	730.3	732.4
22.5°	694.5	696.0	702.1	717.2	719.2
25°	673.3	677.4	685.5	702.6	705.6
27.5°	653.2	656.7	667.8	685.5	690.5
30°	629.5	635.0	648.1	667.3	672.8
32.5°	606.8	612.8	628.0	650.1	655.2
35°	579.5	588.6	607.8	630.0	636.0
37.5°	554.8	563.4	585.1	609.3	616.4
40°	527.6	538.2	562.9	588.6	595.7
42.5°	502.4	512.4	539.2	565.4	575.0
45°	472.1	486.2	514.0	542.7	552.8
47.5°	444.4	458.5	490.3	521.0	530.1
50°	416.6	431.7	465.0	496.8	505.9
52.5°	387.9	404.0	439.8	471.6	482.2
55°	357.6	376.3	413.6	445.9	455.5
57.5°	328.9	348.0	387.9	420.7	430.2
60°	300.6	320.3	361.1	392.4	402.5
62.5°	269.3	292.5	334.9	365.7	373.2
65°	241.1	264.8	306.2	336.9	345.5
67.5°	211.3	237.1	278.4	306.7	314.7
70°	183.1	209.8	249.7	275.9	279.4
72.5°	152.8	180.1	220.4	237.1	237.1
75°	125.6	153.3	190.7	193.7	191.2
77.5°	95.8	126.6	150.8	144.8	138.7
80°	69.1	99.4	110.5	99.4	91.3
82.5°	46.4	72.1	66.6	53.0	46.9
85°	25.7	38.3	26.2	14.6	10.6
87.5°	9.6	8.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)