

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: P307356

Luminaire Tested: **14FCZ2-29-UNV-L82765-RDP-CA125-W2A-U-5700K**

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: P307356
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: 14FCZ2-29-UNV-L82765-RDP-CA125-W2A-U-5700K
Description: 1'X4' TROFFER LED MODULE, SMOOTH LENS WITH INSERT , 0.125" ACRYLIC SHEET
Light Source: (168) 5700K 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: 1868.0 lumens
Efficiency: N/A
Efficacy: 76.2 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

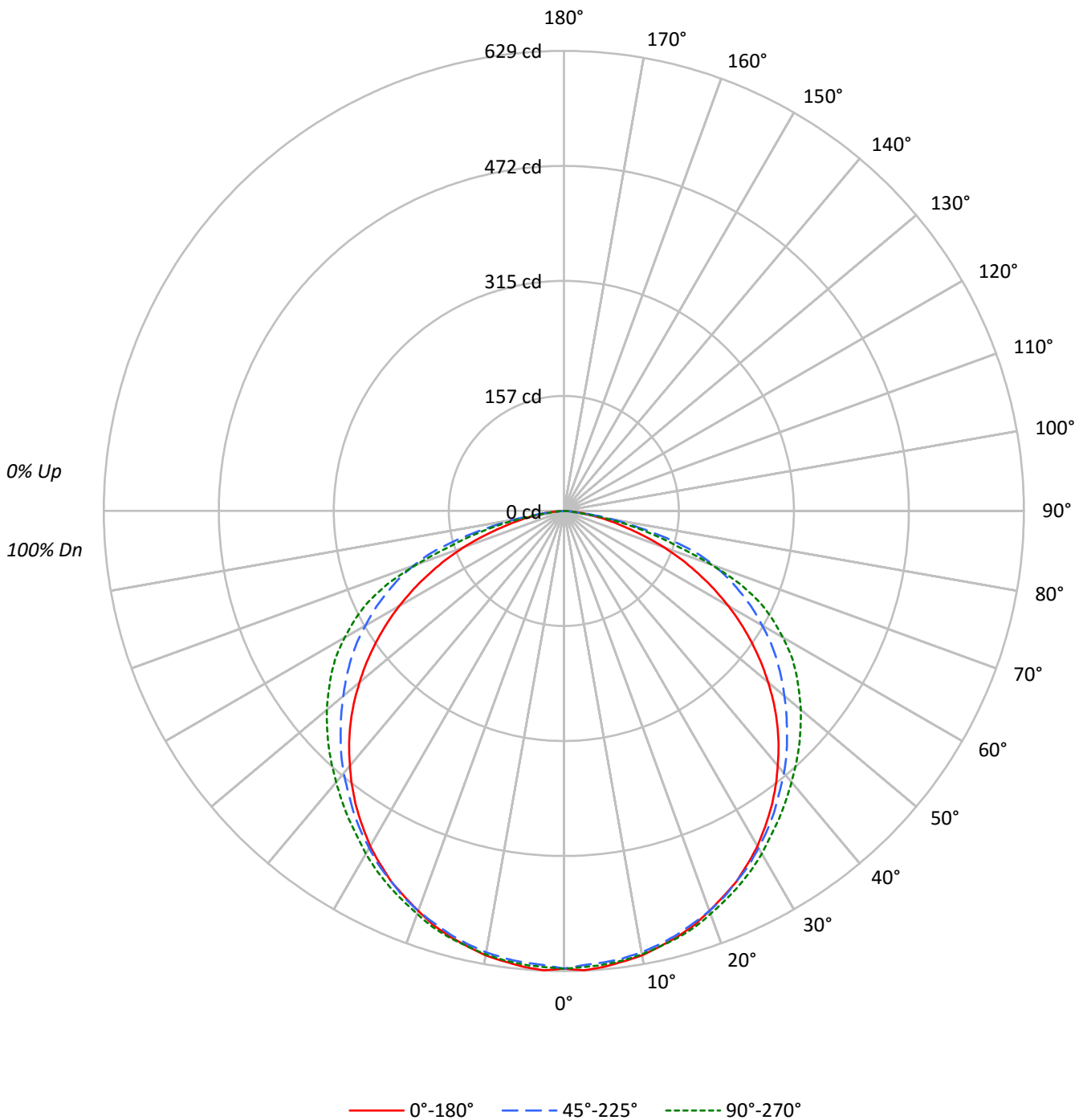
Input Watts (W): 24.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1683	1683	1683
5°	1690	1674	1682
10°	1686	1674	1682
15°	1678	1670	1682
20°	1666	1666	1679
25°	1659	1659	1680
30°	1645	1654	1681
35°	1624	1648	1686
40°	1598	1644	1701
45°	1571	1643	1732
50°	1526	1649	1770
55°	1471	1669	1820
60°	1397	1687	1860
65°	1291	1708	1885
70°	1147	1721	1687
75°	925	1547	1350
80°	724	1085	882
85°	494	315	225



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.2	3.2
10°-20°	169.9	9.1
20°-30°	258.7	13.8
30°-40°	315.1	16.9
40°-50°	334.3	17.9
50°-60°	315.5	16.9
60°-70°	254.7	13.6
70°-80°	138.2	7.4
80°-90°	22.4	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°	487.8	26.1
0°-40°	802.9	43.0
0°-60°	1452.7	77.8
0°-90°	1868.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1868.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	626	626	626	626	626	
5°	626	624	620	624	623	59
15°	602	601	599	604	604	170
25°	559	557	559	564	566	257
35°	494	497	502	512	513	309
45°	413	419	432	448	455	318
55°	314	327	356	379	388	280
65°	203	228	268	290	296	201
75°	89	130	149	134	130	97
85°	16	18	10	9	7	21
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	625.6	625.6	625.6	625.6	625.6
2.5°	628.6	625.6	621.3	625.6	624.2
5°	625.6	624.2	619.8	624.2	622.7
7.5°	621.3	621.3	616.9	619.8	619.8
10°	616.9	615.4	612.5	616.9	615.4
12.5°	609.6	608.1	606.7	611.1	609.6
15°	602.3	600.8	599.4	603.8	603.8
17.5°	593.6	592.1	590.6	596.5	596.5
20°	581.9	581.9	581.9	587.7	586.3
22.5°	570.2	570.2	571.7	577.5	576.1
25°	558.6	557.1	558.6	564.4	565.8
27.5°	544.0	545.4	546.9	552.7	554.2
30°	529.4	530.8	532.3	539.6	541.1
32.5°	511.9	514.8	517.7	526.5	526.5
35°	494.4	497.3	501.7	511.9	513.3
37.5°	475.4	478.3	484.2	495.8	498.8
40°	455.0	459.4	468.1	479.8	484.2
42.5°	434.6	440.4	450.6	463.8	469.6
45°	412.7	418.6	431.7	447.7	455.0
47.5°	389.4	396.7	412.7	433.1	439.0
50°	364.6	374.8	393.8	415.6	422.9
52.5°	339.8	351.5	374.8	398.1	405.4
55°	313.5	326.7	355.8	379.2	387.9
57.5°	287.3	301.9	335.4	360.2	369.0
60°	259.6	277.1	313.5	338.3	345.6
62.5°	231.9	252.3	291.7	316.5	322.3
65°	202.7	227.5	268.3	290.2	296.0
67.5°	175.0	204.2	245.0	261.0	261.0
70°	145.8	177.9	218.8	223.1	214.4
72.5°	116.7	153.1	189.6	173.5	166.3
75°	89.0	129.8	148.8	134.2	129.8
77.5°	67.1	105.0	105.0	96.3	93.3
80°	46.7	80.2	70.0	61.3	56.9
82.5°	30.6	45.2	36.5	29.2	24.8
85°	16.0	17.5	10.2	8.8	7.3
87.5°	5.8	2.9	1.5	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)