

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: METALUX

Report Number: P259176

Luminaire Tested: **14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P259176
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35908)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-LD5-29-SQP-UNV-L92765-W2A1-U-4500K
Description: CRUZE 1x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (168) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1719.0 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

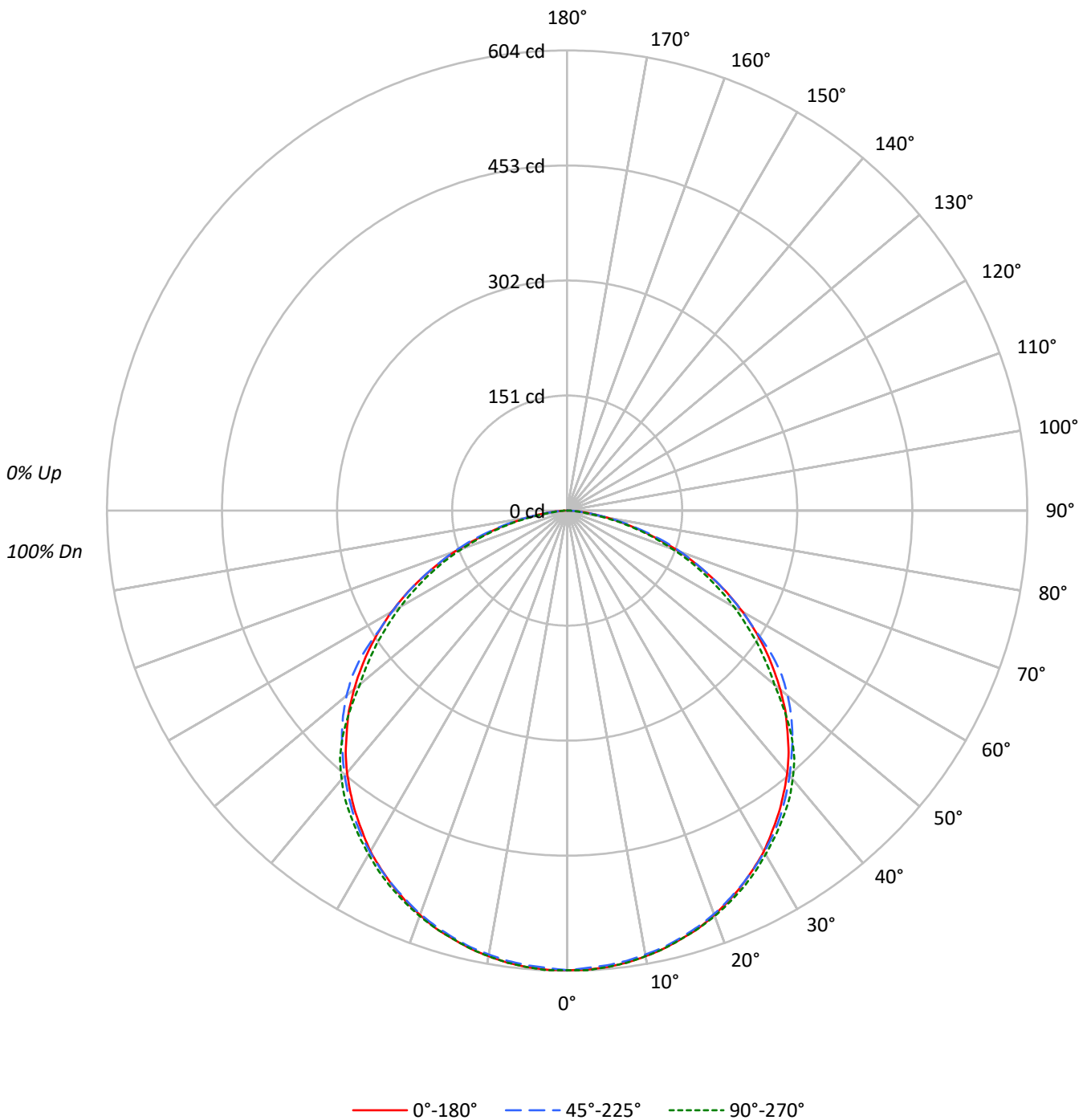
Input Watts (W): 22.506
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	95	98	95	92	94	91	89	90	88	86	84
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	65	62	59
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	50	46	44
6	70	57	48	42	68	56	48	41	54	47	41	52	46	41	51	45	40	38
7	65	52	43	37	63	51	42	37	49	42	36	48	41	36	46	40	36	34
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1623	1623	1623
5°	1625	1619	1625
10°	1623	1617	1623
15°	1621	1616	1621
20°	1617	1614	1622
25°	1611	1610	1622
30°	1605	1608	1619
35°	1591	1605	1620
40°	1579	1596	1618
45°	1556	1591	1584
50°	1528	1582	1487
55°	1489	1533	1431
60°	1432	1429	1363
65°	1342	1349	1275
70°	1232	1246	1154
75°	1036	1083	987
80°	821	840	694
85°	540	466	395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	164.2	9.6
20°-30°	250.7	14.6
30°-40°	305.9	17.8
40°-50°	319.9	18.6
50°-60°	283.2	16.5
60°-70°	208.5	12.1
70°-80°	108.0	6.3
80°-90°	21.5	1.3
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°	472.0	27.5
0°-40°	777.9	45.3
0°-60°	1381.0	80.3
0°-90°	1719.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1719.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	603	603	603	603	603	
5°	602	602	599	602	602	57
15°	582	582	580	582	582	164
25°	543	543	542	546	546	250
35°	484	486	488	493	493	303
45°	409	412	418	422	416	316
55°	317	324	327	310	305	283
65°	211	224	212	204	200	209
75°	100	107	104	98	95	106
85°	18	19	15	13	13	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	603.2	603.2	603.2	603.2	603.2
2.5°	603.2	603.2	600.9	603.2	603.8
5°	601.5	601.5	599.2	601.5	601.5
7.5°	598.6	598.0	596.2	598.6	598.6
10°	593.9	593.9	591.6	594.5	593.9
12.5°	588.7	588.1	586.9	589.3	588.7
15°	581.7	581.7	579.9	582.3	581.7
17.5°	574.7	574.1	572.4	574.7	574.7
20°	564.8	564.2	563.6	566.0	566.5
22.5°	554.3	553.7	553.2	556.6	556.6
25°	542.7	542.7	542.1	545.6	546.2
27.5°	529.9	529.9	530.4	535.1	534.5
30°	516.5	516.5	517.6	521.1	521.1
32.5°	500.2	501.3	503.7	507.7	507.7
35°	484.4	485.6	488.5	493.2	493.2
37.5°	467.0	468.7	471.6	477.5	478.6
40°	449.5	450.7	454.2	460.6	460.6
42.5°	430.3	431.5	436.1	442.5	441.4
45°	408.8	412.2	418.1	421.6	416.3
47.5°	388.4	390.7	398.9	394.8	386.0
50°	365.1	369.7	377.9	363.3	355.2
52.5°	341.2	346.4	355.2	334.8	330.1
55°	317.3	323.7	326.7	309.8	305.1
57.5°	291.7	298.7	292.9	283.0	278.3
60°	266.1	274.2	265.5	256.2	253.3
62.5°	239.3	248.6	238.7	230.6	226.5
65°	210.8	223.6	211.9	203.8	200.3
67.5°	182.8	196.2	184.0	177.0	174.7
70°	156.6	164.2	158.4	151.4	146.7
72.5°	125.2	132.8	131.6	124.0	121.1
75°	99.6	106.6	104.2	97.8	94.9
77.5°	73.9	81.5	79.2	71.6	70.5
80°	53.0	58.2	54.2	47.2	44.8
82.5°	33.2	37.3	32.0	26.8	25.6
85°	17.5	18.6	15.1	13.4	12.8
87.5°	5.8	6.4	6.4	5.8	5.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)