

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: P260455

Luminaire Tested: **22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25714)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-LD5-24-RDP-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x2 TUNABLE WHITE LED TROFFER
WITH RDP LENS
Light Source: (168) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1754.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.28 / 1.36
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

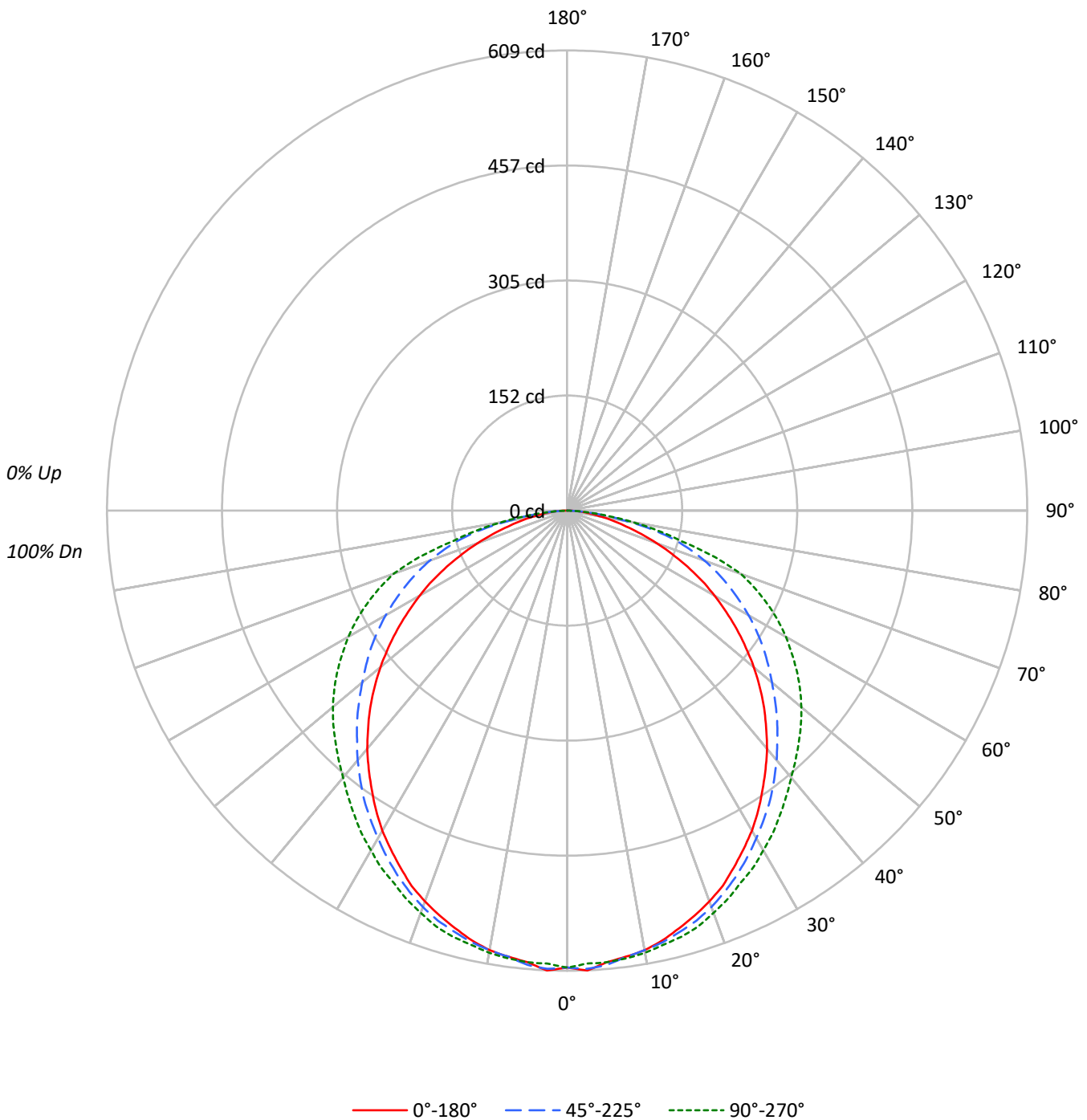
Input Watts (W): 17.67
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	98	90	83	77	96	88	81	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	57
4	82	69	60	54	79	68	60	53	66	58	52	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	37	31	43	36	31	42	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	26	51	38	31	26	37	30	25	36	30	25	36	30	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1627	1627	1627
5°	1621	1630	1621
10°	1614	1614	1624
15°	1594	1607	1627
20°	1576	1599	1623
25°	1548	1579	1613
30°	1520	1556	1613
35°	1481	1538	1614
40°	1446	1515	1620
45°	1404	1496	1650
50°	1351	1481	1694
55°	1285	1486	1742
60°	1214	1493	1799
65°	1119	1502	1862
70°	991	1519	1920
75°	841	1515	1634
80°	699	1218	1362
85°	608	821	784



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	3.3
10°-20°	163.0	9.3
20°-30°	245.2	14.0
30°-40°	293.8	16.8
40°-50°	306.4	17.5
50°-60°	285.3	16.3
60°-70°	231.6	13.2
70°-80°	139.6	8.0
80°-90°	32.0	1.8
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°	465.3	26.5
0°-40°	759.1	43.3
0°-60°	1350.8	77.0
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	605	605	605	605	605	
5°	600	600	604	605	600	57
15°	572	575	577	580	584	162
25°	522	525	532	539	543	240
35°	451	457	468	482	491	282
45°	369	376	393	419	434	284
55°	274	286	317	352	371	245
65°	176	194	236	273	292	174
75°	81	108	146	155	157	87
85°	20	24	27	25	25	23
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	604.7	604.7	604.7	604.7	604.7
2.5°	609.3	608.2	607.0	603.6	600.1
5°	600.1	600.1	603.6	604.7	600.1
7.5°	595.5	595.5	595.5	600.1	597.8
10°	590.8	590.8	590.8	594.3	594.3
12.5°	582.7	583.9	585.1	586.2	588.5
15°	572.3	574.7	577.0	580.4	583.9
17.5°	561.9	564.2	568.9	572.3	577.0
20°	550.4	552.7	558.5	561.9	566.6
22.5°	537.7	538.8	545.7	550.4	556.2
25°	521.5	524.9	531.9	538.8	543.4
27.5°	505.3	508.7	516.8	526.1	533.0
30°	489.1	492.6	500.7	512.2	519.2
32.5°	470.6	475.2	484.5	498.3	506.4
35°	450.9	456.7	468.3	482.2	491.4
37.5°	431.3	437.1	449.8	467.1	476.4
40°	411.6	417.4	431.3	449.8	461.3
42.5°	389.7	396.6	411.6	433.6	447.5
45°	368.8	375.8	393.1	418.6	433.6
47.5°	345.7	353.8	373.5	402.4	419.7
50°	322.6	331.8	353.8	386.2	404.7
52.5°	298.3	308.7	335.3	368.8	388.5
55°	274.0	285.6	316.8	351.5	371.2
57.5°	249.7	262.5	297.2	333.0	352.7
60°	225.5	239.3	277.5	314.5	334.2
62.5°	201.2	216.2	256.7	293.7	314.5
65°	175.7	194.2	235.9	272.9	292.5
67.5°	150.3	172.3	215.1	250.9	269.4
70°	126.0	150.3	193.1	226.6	244.0
72.5°	102.9	128.3	170.0	198.9	205.8
75°	80.9	107.5	145.7	154.9	157.2
77.5°	62.4	86.7	115.6	117.9	123.7
80°	45.1	65.9	78.6	85.6	87.9
82.5°	31.2	45.1	52.0	53.2	54.3
85°	19.7	24.3	26.6	25.4	25.4
87.5°	10.4	9.2	8.1	5.8	4.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)