

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: P260907

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260907
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6162.0 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

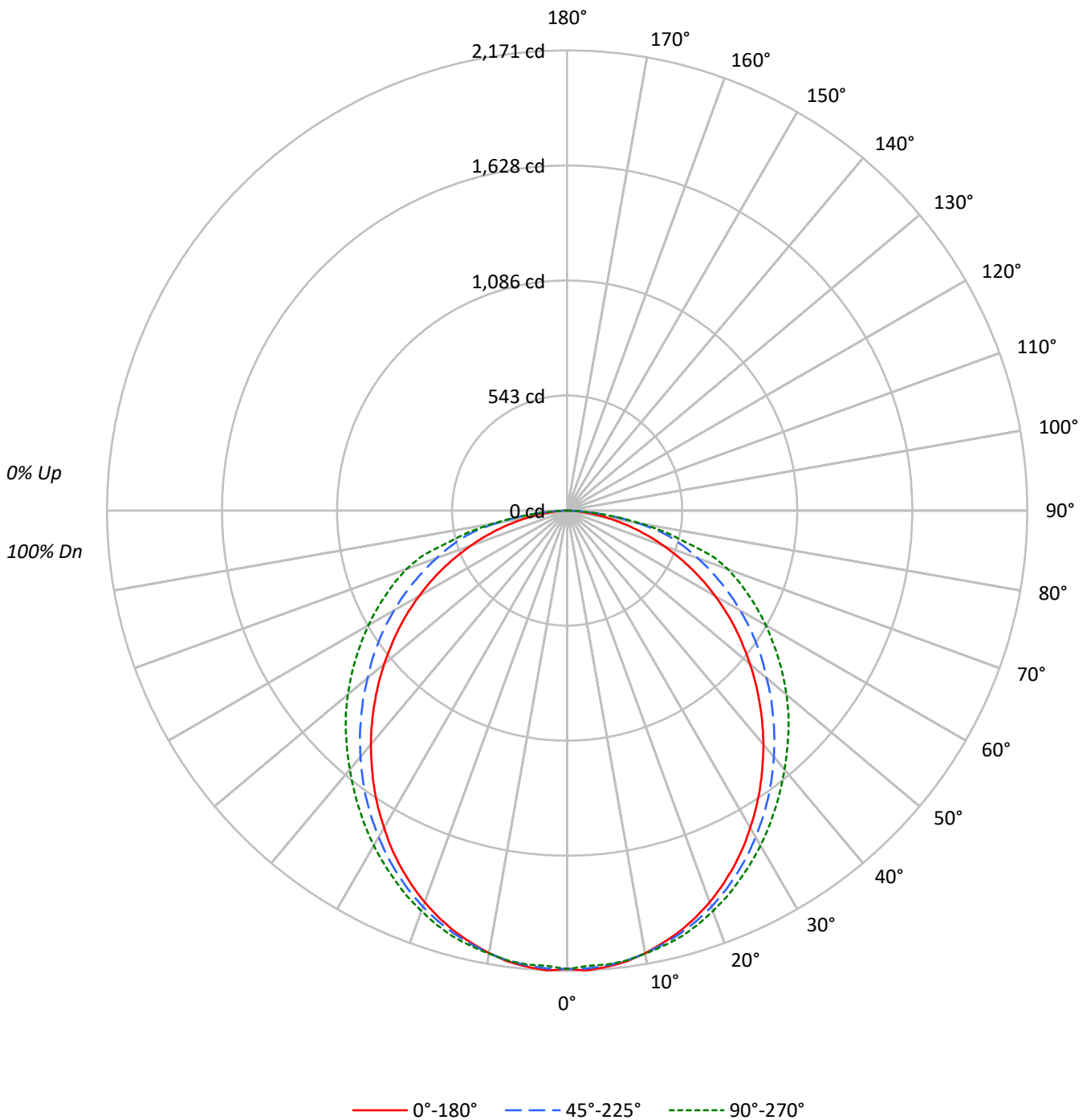
Input Watts (W): 50.406
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2910	2910	2910
5°	2918	2909	2904
10°	2897	2897	2900
15°	2862	2877	2898
20°	2815	2849	2879
25°	2756	2810	2856
30°	2685	2763	2835
35°	2610	2717	2814
40°	2531	2664	2801
45°	2445	2614	2810
50°	2358	2570	2826
55°	2272	2554	2856
60°	2169	2538	2912
65°	2055	2539	3009
70°	1900	2581	3170
75°	1700	2698	3016
80°	1423	2583	2763
85°	1074	1987	1890



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.4	3.3
10°-20°	581.6	9.4
20°-30°	869.5	14.1
30°-40°	1031.5	16.7
40°-50°	1061.7	17.2
50°-60°	973.9	15.8
60°-70°	787.5	12.8
70°-80°	511.1	8.3
80°-90°	140.9	2.3
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°	1655.4	26.9
0°-40°	2686.9	43.6
0°-60°	4722.5	76.6
0°-90°	6162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6162.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2162	2162	2162	2162	2162	
5°	2160	2146	2154	2152	2150	205
15°	2055	2046	2066	2074	2080	579
25°	1857	1859	1892	1909	1924	855
35°	1589	1601	1654	1690	1713	993
45°	1285	1306	1374	1439	1477	992
55°	968	998	1089	1177	1217	865
65°	646	684	798	903	945	638
75°	327	388	519	580	580	348
85°	70	118	129	124	122	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2162.5	2162.5	2162.5	2162.5	2162.5
2.5°	2171.0	2154.1	2162.5	2160.4	2149.9
5°	2160.4	2145.7	2154.1	2152.0	2149.9
7.5°	2145.7	2130.9	2141.4	2139.3	2141.4
10°	2120.3	2107.7	2120.3	2122.5	2122.5
12.5°	2088.7	2078.1	2095.0	2099.2	2103.5
15°	2054.9	2046.5	2065.5	2073.9	2080.3
17.5°	2012.7	2006.4	2029.6	2040.2	2048.6
20°	1966.3	1964.2	1989.5	2000.1	2010.6
22.5°	1913.6	1913.6	1943.1	1955.8	1970.6
25°	1856.6	1858.7	1892.5	1909.4	1924.1
27.5°	1795.4	1797.5	1837.6	1858.7	1875.6
30°	1727.9	1736.4	1778.6	1806.0	1825.0
32.5°	1660.4	1671.0	1717.4	1749.0	1770.1
35°	1588.7	1601.3	1654.1	1689.9	1713.2
37.5°	1514.8	1529.6	1586.6	1626.7	1654.1
40°	1441.0	1457.9	1516.9	1563.4	1595.0
42.5°	1362.9	1381.9	1447.3	1502.2	1535.9
45°	1284.9	1306.0	1373.5	1438.9	1476.9
47.5°	1206.8	1232.1	1303.9	1375.6	1415.7
50°	1126.6	1151.9	1227.9	1310.2	1350.3
52.5°	1046.5	1076.0	1160.4	1244.8	1284.9
55°	968.4	997.9	1088.7	1177.3	1217.4
57.5°	888.2	917.8	1016.9	1109.8	1149.8
60°	805.9	839.7	943.1	1038.0	1082.3
62.5°	725.8	761.6	871.3	972.6	1014.8
65°	645.6	683.6	797.5	903.0	945.2
67.5°	563.3	607.6	725.8	833.4	877.7
70°	483.1	531.7	656.1	763.7	805.9
72.5°	405.1	457.8	586.5	696.2	721.6
75°	327.0	388.2	519.0	580.2	580.2
77.5°	253.2	320.7	443.1	466.3	478.9
80°	183.6	257.4	333.3	360.8	356.6
82.5°	122.4	196.2	238.4	238.4	232.1
85°	69.6	118.1	128.7	124.5	122.4
87.5°	29.5	44.3	40.1	31.6	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)