

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: P260758

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260758
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-LD5-60-UNV-L82765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5891.0 lumens
Efficiency: N/A
Efficacy: 132.5 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

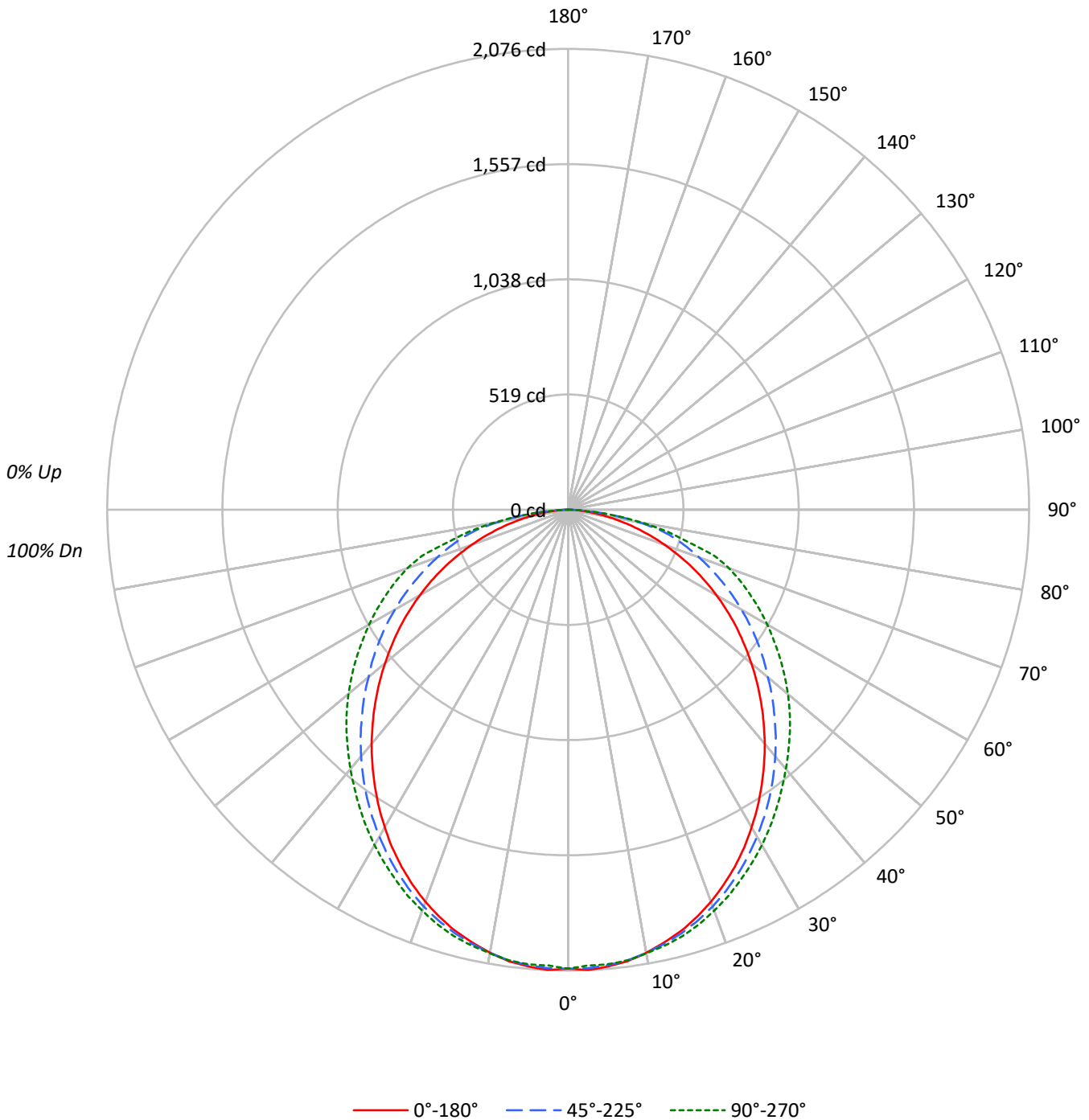
Input Watts (W): 44.454
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	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	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2782	2782	2782
5°	2790	2781	2776
10°	2770	2770	2772
15°	2737	2751	2770
20°	2692	2723	2752
25°	2635	2686	2731
30°	2566	2642	2711
35°	2495	2597	2690
40°	2420	2547	2678
45°	2337	2499	2687
50°	2255	2457	2702
55°	2172	2441	2730
60°	2073	2426	2784
65°	1965	2427	2877
70°	1817	2468	3031
75°	1625	2580	2884
80°	1360	2469	2641
85°	1028	1899	1806



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	3.3
10°-20°	556.0	9.4
20°-30°	831.2	14.1
30°-40°	986.1	16.7
40°-50°	1015.0	17.2
50°-60°	931.1	15.8
60°-70°	752.8	12.8
70°-80°	488.6	8.3
80°-90°	134.7	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°	1582.6	26.9
0°-40°	2568.8	43.6
0°-60°	4514.8	76.6
0°-90°	5891.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5891.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2067	2067	2067	2067	2067	
5°	2065	2051	2059	2057	2055	196
15°	1965	1956	1975	1983	1989	553
25°	1775	1777	1809	1825	1840	817
35°	1519	1531	1581	1616	1638	950
45°	1228	1248	1313	1376	1412	948
55°	926	954	1041	1126	1164	827
65°	617	654	762	863	904	610
75°	313	371	496	555	555	332
85°	67	113	123	119	117	81
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2067.4	2067.4	2067.4	2067.4	2067.4
2.5°	2075.5	2059.4	2067.4	2065.4	2055.3
5°	2065.4	2051.3	2059.4	2057.3	2055.3
7.5°	2051.3	2037.2	2047.3	2045.2	2047.3
10°	2027.1	2015.0	2027.1	2029.1	2029.1
12.5°	1996.8	1986.8	2002.9	2006.9	2011.0
15°	1964.6	1956.5	1974.7	1982.7	1988.8
17.5°	1924.2	1918.2	1940.4	1950.4	1958.5
20°	1879.9	1877.8	1902.0	1912.1	1922.2
22.5°	1829.4	1829.4	1857.7	1869.8	1883.9
25°	1775.0	1777.0	1809.3	1825.4	1839.5
27.5°	1716.5	1718.5	1756.8	1777.0	1793.1
30°	1651.9	1660.0	1700.3	1726.6	1744.7
32.5°	1587.4	1597.5	1641.8	1672.1	1692.3
35°	1518.8	1530.9	1581.3	1615.6	1637.8
37.5°	1448.2	1462.3	1516.8	1555.1	1581.3
40°	1377.6	1393.8	1450.2	1494.6	1524.9
42.5°	1303.0	1321.1	1383.7	1436.1	1468.4
45°	1228.4	1248.5	1313.1	1375.6	1411.9
47.5°	1153.7	1177.9	1246.5	1315.1	1353.4
50°	1077.1	1101.3	1173.9	1252.6	1290.9
52.5°	1000.4	1028.7	1109.4	1190.0	1228.4
55°	925.8	954.0	1040.8	1125.5	1163.8
57.5°	849.2	877.4	972.2	1060.9	1099.3
60°	770.5	802.8	901.6	992.4	1034.7
62.5°	693.9	728.1	833.0	929.8	970.2
65°	617.2	653.5	762.4	863.3	903.6
67.5°	538.5	580.9	693.9	796.7	839.1
70°	461.9	508.3	627.3	730.2	770.5
72.5°	387.3	437.7	560.7	665.6	689.8
75°	312.6	371.1	496.2	554.7	554.7
77.5°	242.0	306.6	423.6	445.8	457.9
80°	175.5	246.1	318.7	344.9	340.9
82.5°	117.0	187.6	227.9	227.9	221.9
85°	66.6	113.0	123.0	119.0	117.0
87.5°	28.2	42.4	38.3	30.3	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)