

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: P260919

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260919
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-LD5-75-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6142.0 lumens
Efficiency: N/A
Efficacy: 106.2 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

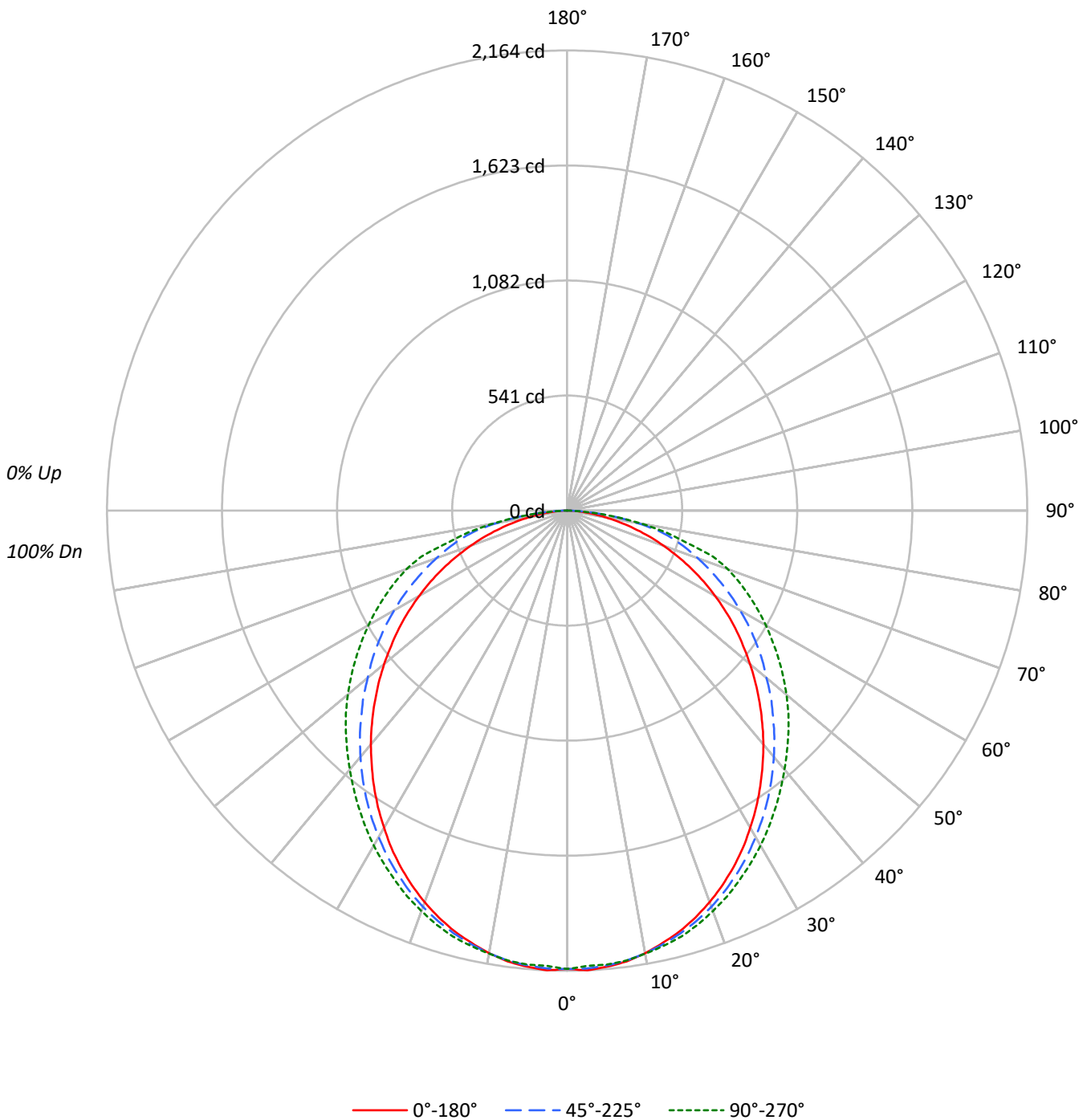
Input Watts (W): 57.846
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2900	2900	2900
5°	2908	2900	2894
10°	2888	2888	2890
15°	2853	2868	2888
20°	2806	2839	2870
25°	2747	2800	2847
30°	2676	2754	2826
35°	2601	2708	2805
40°	2523	2656	2792
45°	2437	2605	2801
50°	2351	2562	2817
55°	2264	2545	2846
60°	2162	2530	2903
65°	2049	2531	2999
70°	1895	2573	3160
75°	1695	2689	3006
80°	1418	2575	2754
85°	1071	1981	1883



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.7	3.3
10°-20°	579.7	9.4
20°-30°	866.7	14.1
30°-40°	1028.1	16.7
40°-50°	1058.2	17.2
50°-60°	970.8	15.8
60°-70°	784.9	12.8
70°-80°	509.4	8.3
80°-90°	140.5	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°	1650.1	26.9
0°-40°	2678.2	43.6
0°-60°	4707.2	76.6
0°-90°	6142.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6142.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2156	2156	2156	2156	2156	
5°	2153	2139	2147	2145	2143	204
15°	2048	2040	2059	2067	2074	577
25°	1851	1853	1886	1903	1918	852
35°	1584	1596	1649	1684	1708	990
45°	1281	1302	1369	1434	1472	988
55°	965	995	1085	1173	1213	862
65°	644	681	795	900	942	636
75°	326	387	517	578	578	346
85°	69	118	128	124	122	85
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2155.5	2155.5	2155.5	2155.5	2155.5
2.5°	2163.9	2147.1	2155.5	2153.4	2142.9
5°	2153.4	2138.7	2147.1	2145.0	2142.9
7.5°	2138.7	2124.0	2134.5	2132.4	2134.5
10°	2113.5	2100.8	2113.5	2115.6	2115.6
12.5°	2081.9	2071.4	2088.2	2092.4	2096.6
15°	2048.3	2039.9	2058.8	2067.2	2073.5
17.5°	2006.2	1999.9	2023.0	2033.6	2042.0
20°	1959.9	1957.8	1983.1	1993.6	2004.1
22.5°	1907.4	1907.4	1936.8	1949.4	1964.2
25°	1850.6	1852.7	1886.3	1903.2	1917.9
27.5°	1789.6	1791.7	1831.7	1852.7	1869.5
30°	1722.3	1730.7	1772.8	1800.1	1819.1
32.5°	1655.0	1665.5	1711.8	1743.3	1764.4
35°	1583.5	1596.1	1648.7	1684.5	1707.6
37.5°	1509.9	1524.6	1581.4	1621.4	1648.7
40°	1436.3	1453.1	1512.0	1558.3	1589.8
42.5°	1358.5	1377.4	1442.6	1497.3	1530.9
45°	1280.7	1301.7	1369.0	1434.2	1472.1
47.5°	1202.9	1228.1	1299.6	1371.1	1411.1
50°	1123.0	1148.2	1223.9	1305.9	1345.9
52.5°	1043.1	1072.5	1156.6	1240.7	1280.7
55°	965.3	994.7	1085.1	1173.4	1213.4
57.5°	885.3	914.8	1013.6	1106.2	1146.1
60°	803.3	837.0	940.0	1034.7	1078.8
62.5°	723.4	759.2	868.5	969.5	1011.5
65°	643.5	681.4	794.9	900.1	942.1
67.5°	561.5	605.6	723.4	830.7	874.8
70°	481.6	529.9	654.0	761.3	803.3
72.5°	403.8	456.3	584.6	694.0	719.2
75°	326.0	386.9	517.3	578.3	578.3
77.5°	252.4	319.6	441.6	464.8	477.4
80°	183.0	256.6	332.3	359.6	355.4
82.5°	122.0	195.6	237.6	237.6	231.3
85°	69.4	117.8	128.3	124.1	122.0
87.5°	29.4	44.2	40.0	31.5	27.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)