

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: P260580

Luminaire Tested: **24CZ-LD5-55-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260580
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-LD5-55-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5883.0 lumens
Efficiency: N/A
Efficacy: 139.9 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

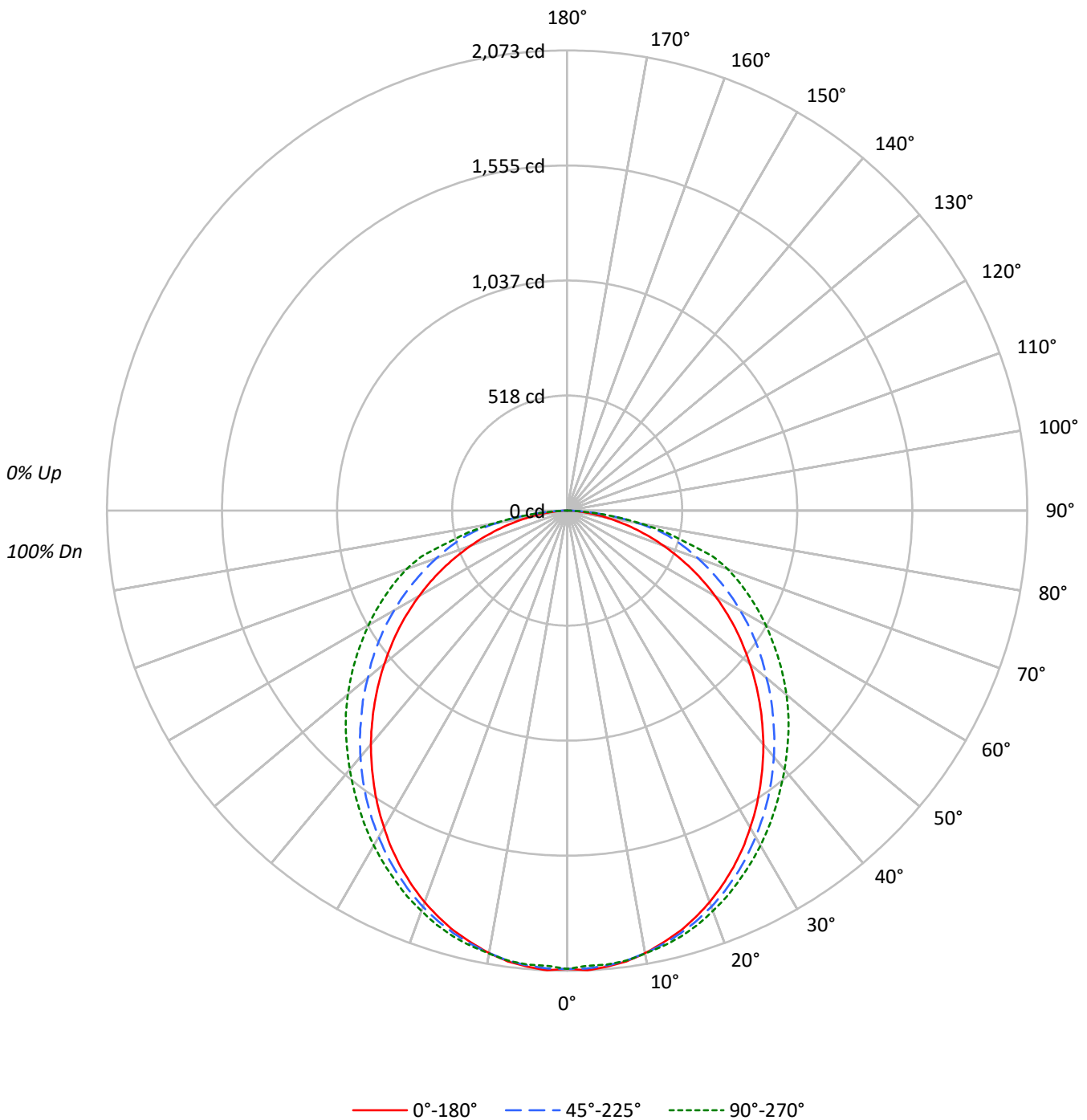
Input Watts (W): 42.047067
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	2778	2778	2778
5°	2786	2778	2772
10°	2766	2766	2769
15°	2733	2747	2767
20°	2688	2720	2749
25°	2632	2682	2727
30°	2563	2638	2707
35°	2491	2594	2687
40°	2416	2544	2675
45°	2334	2495	2683
50°	2251	2454	2698
55°	2169	2438	2726
60°	2071	2423	2781
65°	1962	2424	2873
70°	1815	2464	3027
75°	1623	2576	2879
80°	1358	2466	2638
85°	1027	1897	1803



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.1	3.3
10°-20°	555.3	9.4
20°-30°	830.1	14.1
30°-40°	984.8	16.7
40°-50°	1013.6	17.2
50°-60°	929.8	15.8
60°-70°	751.8	12.8
70°-80°	487.9	8.3
80°-90°	134.5	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°	1580.5	26.9
0°-40°	2565.3	43.6
0°-60°	4508.7	76.6
0°-90°	5883.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2063	2048	2057	2055	2052	196
15°	1962	1954	1972	1980	1986	553
25°	1773	1775	1807	1823	1837	816
35°	1517	1529	1579	1613	1636	948
45°	1227	1247	1311	1374	1410	947
55°	925	953	1039	1124	1162	826
65°	616	653	761	862	902	609
75°	312	371	496	554	554	332
85°	66	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°	2064.6	2064.6	2064.6	2064.6	2064.6
2.5°	2072.7	2056.6	2064.6	2062.6	2052.5
5°	2062.6	2048.5	2056.6	2054.6	2052.5
7.5°	2048.5	2034.4	2044.5	2042.5	2044.5
10°	2024.3	2012.3	2024.3	2026.4	2026.4
12.5°	1994.1	1984.1	2000.2	2004.2	2008.2
15°	1961.9	1953.8	1972.0	1980.0	1986.1
17.5°	1921.6	1915.6	1937.7	1947.8	1955.9
20°	1877.3	1875.3	1899.5	1909.5	1919.6
22.5°	1826.9	1826.9	1855.1	1867.2	1881.3
25°	1772.6	1774.6	1806.8	1822.9	1837.0
27.5°	1714.1	1716.2	1754.4	1774.6	1790.7
30°	1649.7	1657.7	1698.0	1724.2	1742.3
32.5°	1585.2	1595.3	1639.6	1669.8	1690.0
35°	1516.7	1528.8	1579.2	1613.4	1635.6
37.5°	1446.2	1460.3	1514.7	1553.0	1579.2
40°	1375.7	1391.9	1448.3	1492.6	1522.8
42.5°	1301.2	1319.3	1381.8	1434.2	1466.4
45°	1226.7	1246.8	1311.3	1373.7	1410.0
47.5°	1152.2	1176.3	1244.8	1313.3	1351.6
50°	1075.6	1099.8	1172.3	1250.9	1289.1
52.5°	999.1	1027.3	1107.8	1188.4	1226.7
55°	924.6	952.7	1039.4	1124.0	1162.2
57.5°	848.0	876.2	970.9	1059.5	1097.8
60°	769.5	801.7	900.4	991.0	1033.3
62.5°	692.9	727.2	831.9	928.6	968.9
65°	616.4	652.6	761.4	862.1	902.4
67.5°	537.8	580.1	692.9	795.6	837.9
70°	461.3	507.6	626.4	729.2	769.5
72.5°	386.7	437.1	560.0	664.7	688.9
75°	312.2	370.6	495.5	553.9	553.9
77.5°	241.7	306.2	423.0	445.2	457.2
80°	175.2	245.7	318.3	344.4	340.4
82.5°	116.8	187.3	227.6	227.6	221.6
85°	66.5	112.8	122.9	118.8	116.8
87.5°	28.2	42.3	38.3	30.2	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)