

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: P260908

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260908  
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-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6203.0 lumens  
Efficiency: N/A  
Efficacy: 121.1 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

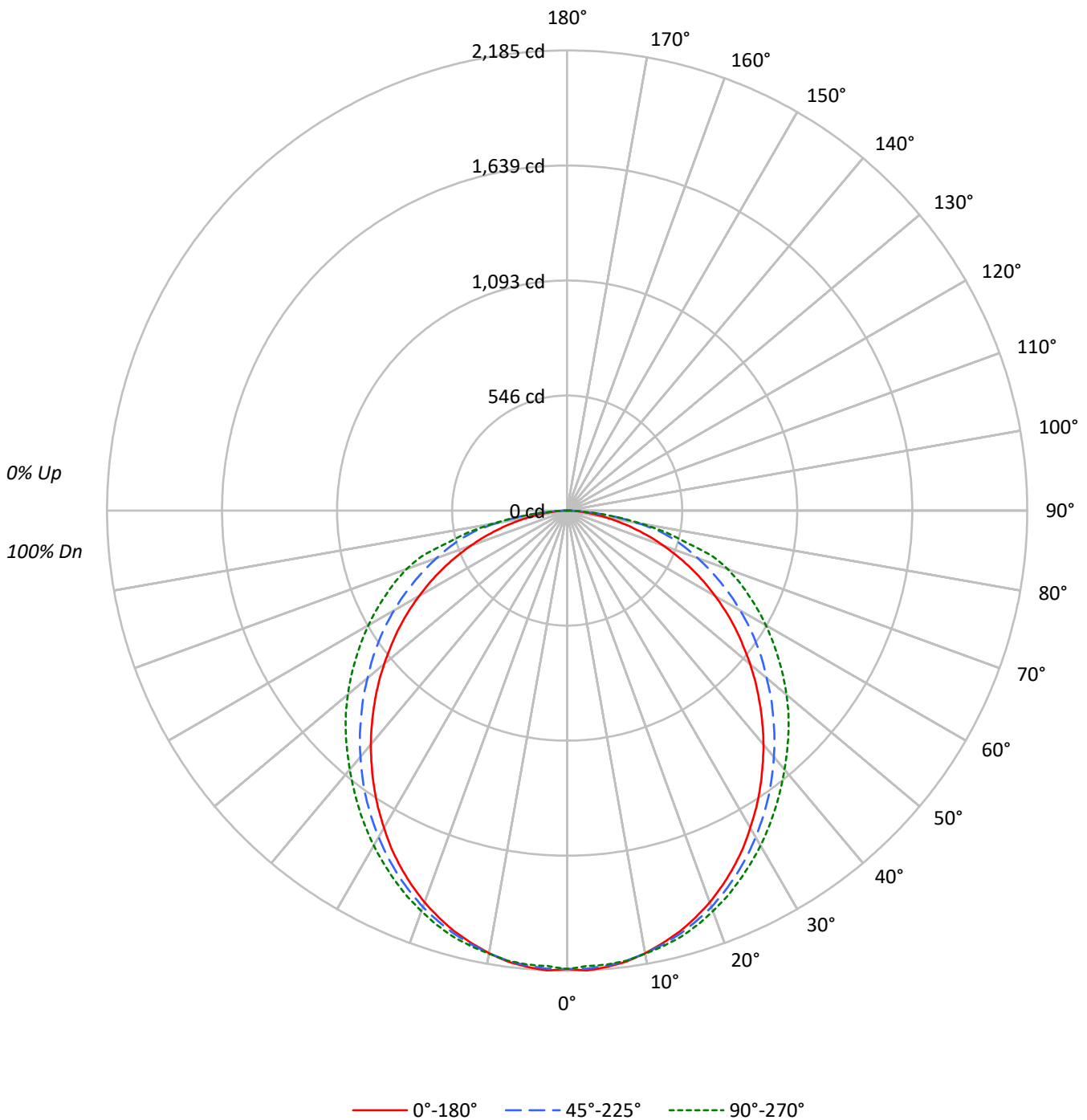
Input Watts (W): 51.243  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2929	2929	2929
5°	2937	2929	2923
10°	2916	2916	2919
15°	2881	2896	2917
20°	2834	2868	2898
25°	2775	2828	2875
30°	2702	2782	2854
35°	2627	2735	2833
40°	2548	2682	2820
45°	2461	2631	2829
50°	2374	2587	2845
55°	2287	2571	2875
60°	2183	2555	2932
65°	2069	2556	3029
70°	1913	2598	3192
75°	1711	2716	3036
80°	1432	2600	2781
85°	1082	2001	1902



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	3.3
10°-20°	585.5	9.4
20°-30°	875.3	14.1
30°-40°	1038.4	16.7
40°-50°	1068.7	17.2
50°-60°	980.4	15.8
60°-70°	792.7	12.8
70°-80°	514.5	8.3
80°-90°	141.9	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°	1666.5	26.9
0°-40°	2704.8	43.6
0°-60°	4754.0	76.6
0°-90°	6203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6203.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2177	2177	2177	2177	2177	
5°	2175	2160	2168	2166	2164	206
15°	2069	2060	2079	2088	2094	583
25°	1869	1871	1905	1922	1937	860
35°	1599	1612	1665	1701	1725	1000
45°	1293	1315	1383	1448	1487	998
55°	975	1005	1096	1185	1226	871
65°	650	688	803	909	952	642
75°	329	391	522	584	584	350
85°	70	119	130	125	123	86
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2176.9	2176.9	2176.9	2176.9	2176.9
2.5°	2185.4	2168.4	2176.9	2174.8	2164.2
5°	2174.8	2159.9	2168.4	2166.3	2164.2
7.5°	2159.9	2145.1	2155.7	2153.6	2155.7
10°	2134.5	2121.7	2134.5	2136.6	2136.6
12.5°	2102.6	2092.0	2109.0	2113.2	2117.5
15°	2068.6	2060.1	2079.2	2087.7	2094.1
17.5°	2026.1	2019.8	2043.1	2053.7	2062.2
20°	1979.4	1977.3	2002.8	2013.4	2024.0
22.5°	1926.3	1926.3	1956.1	1968.8	1983.7
25°	1869.0	1871.1	1905.1	1922.1	1936.9
27.5°	1807.4	1809.5	1849.9	1871.1	1888.1
30°	1739.4	1747.9	1790.4	1818.0	1837.1
32.5°	1671.5	1682.1	1728.8	1760.7	1781.9
35°	1599.2	1612.0	1665.1	1701.2	1724.6
37.5°	1524.9	1539.8	1597.1	1637.5	1665.1
40°	1450.6	1467.6	1527.0	1573.8	1605.6
42.5°	1372.0	1391.1	1457.0	1512.2	1546.2
45°	1293.4	1314.7	1382.6	1448.5	1486.7
47.5°	1214.8	1240.3	1312.5	1384.7	1425.1
50°	1134.1	1159.6	1236.1	1318.9	1359.3
52.5°	1053.4	1083.2	1168.1	1253.1	1293.4
55°	974.8	1004.6	1095.9	1185.1	1225.5
57.5°	894.1	923.9	1023.7	1117.1	1157.5
60°	811.3	845.3	949.4	1044.9	1089.5
62.5°	730.6	766.7	877.1	979.1	1021.6
65°	649.9	688.1	802.8	909.0	951.5
67.5°	567.1	611.7	730.6	838.9	883.5
70°	486.4	535.2	660.5	768.8	811.3
72.5°	407.8	460.9	590.4	700.9	726.4
75°	329.2	390.8	522.5	584.1	584.1
77.5°	254.9	322.8	446.0	469.4	482.1
80°	184.8	259.1	335.6	363.2	358.9
82.5°	123.2	197.5	240.0	240.0	233.6
85°	70.1	118.9	129.6	125.3	123.2
87.5°	29.7	44.6	40.4	31.9	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)