

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: P260914

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260914  
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-LD5-70-UNV-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6518.0 lumens  
Efficiency: N/A  
Efficacy: 118.6 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

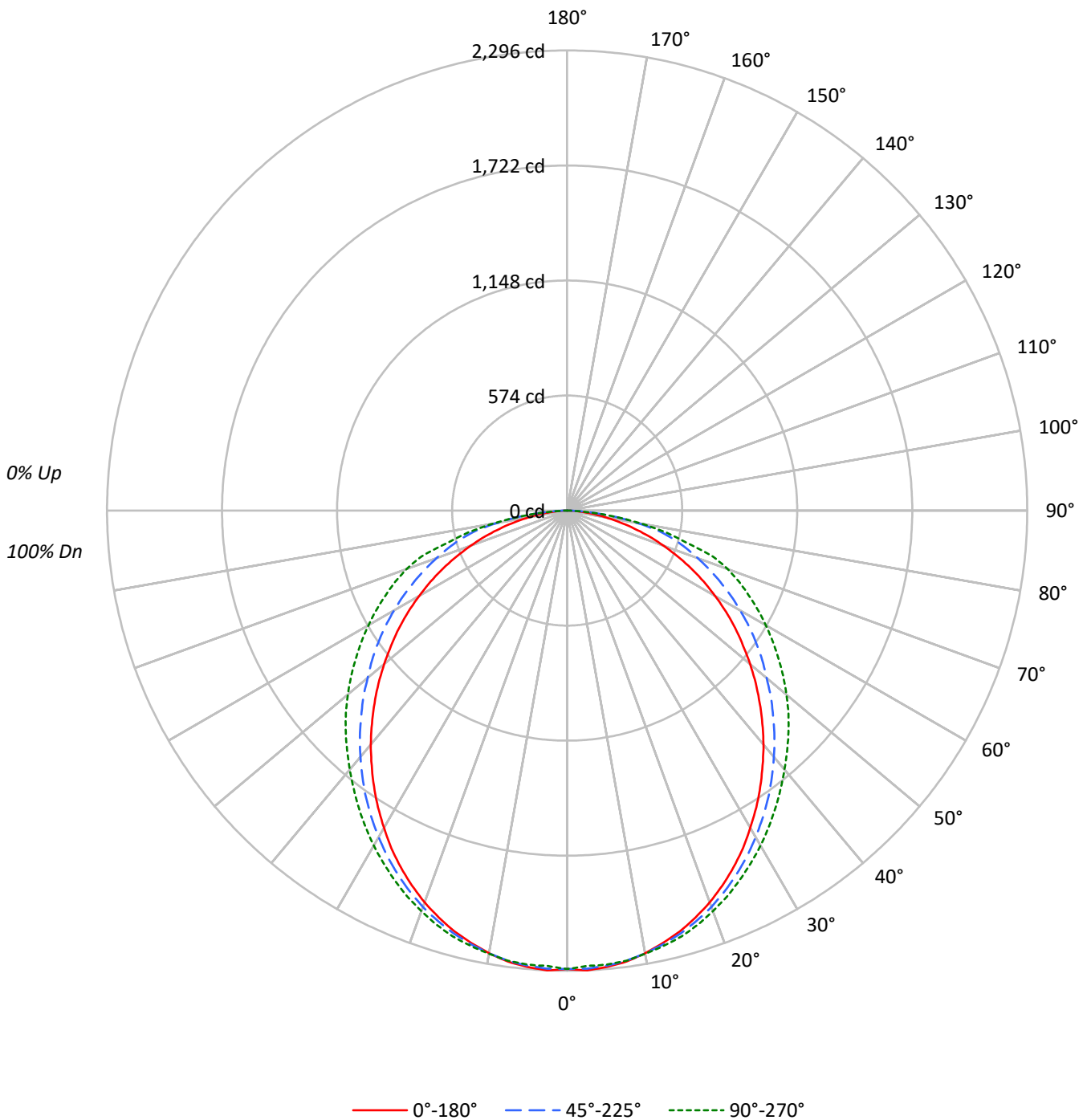
Input Watts (W): 54.963  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3078	3078	3078
5°	3086	3078	3071
10°	3064	3064	3067
15°	3028	3043	3065
20°	2978	3013	3045
25°	2916	2972	3022
30°	2840	2923	2999
35°	2760	2874	2976
40°	2677	2818	2963
45°	2586	2764	2973
50°	2494	2719	2990
55°	2403	2701	3021
60°	2294	2685	3081
65°	2174	2686	3183
70°	2011	2731	3354
75°	1798	2854	3190
80°	1505	2732	2923
85°	1136	2101	1998



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	216.2	3.3
10°-20°	615.2	9.4
20°-30°	919.7	14.1
30°-40°	1091.1	16.7
40°-50°	1123.0	17.2
50°-60°	1030.2	15.8
60°-70°	833.0	12.8
70°-80°	540.6	8.3
80°-90°	149.1	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°	1751.1	26.9
0°-40°	2842.2	43.6
0°-60°	4995.4	76.6
0°-90°	6518.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6518.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2288	2288	2288	2288	2288	
5°	2285	2270	2279	2276	2274	217
15°	2174	2165	2185	2194	2200	612
25°	1964	1966	2002	2020	2035	904
35°	1680	1694	1750	1788	1812	1051
45°	1359	1381	1453	1522	1562	1049
55°	1024	1056	1152	1245	1288	915
65°	683	723	844	955	1000	675
75°	346	411	549	614	614	368
85°	74	125	136	132	129	90
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2287.5	2287.5	2287.5	2287.5	2287.5
2.5°	2296.4	2278.6	2287.5	2285.2	2274.1
5°	2285.2	2269.6	2278.6	2276.3	2274.1
7.5°	2269.6	2254.0	2265.2	2262.9	2265.2
10°	2242.8	2229.5	2242.8	2245.1	2245.1
12.5°	2209.4	2198.2	2216.1	2220.5	2225.0
15°	2173.7	2164.7	2184.8	2193.7	2200.4
17.5°	2129.0	2122.3	2146.9	2158.0	2167.0
20°	2079.9	2077.7	2104.5	2115.6	2126.8
22.5°	2024.1	2024.1	2055.4	2068.8	2084.4
25°	1963.9	1966.1	2001.8	2019.7	2035.3
27.5°	1899.2	1901.4	1943.8	1966.1	1984.0
30°	1827.8	1836.7	1881.3	1910.3	1930.4
32.5°	1756.3	1767.5	1816.6	1850.1	1872.4
35°	1680.5	1693.9	1749.6	1787.6	1812.1
37.5°	1602.4	1618.0	1678.2	1720.6	1749.6
40°	1524.2	1542.1	1604.6	1653.7	1687.2
42.5°	1441.7	1461.8	1530.9	1589.0	1624.7
45°	1359.1	1381.4	1452.8	1522.0	1562.2
47.5°	1276.5	1303.3	1379.2	1455.1	1497.5
50°	1191.7	1218.5	1298.8	1385.9	1428.3
52.5°	1106.9	1138.2	1227.4	1316.7	1359.1
55°	1024.3	1055.6	1151.6	1245.3	1287.7
57.5°	939.5	970.8	1075.7	1173.9	1216.3
60°	852.5	888.2	997.6	1098.0	1144.9
62.5°	767.7	805.6	921.7	1028.8	1073.4
65°	682.9	723.1	843.6	955.2	999.8
67.5°	595.9	642.7	767.7	881.5	928.4
70°	511.1	562.4	694.1	807.9	852.5
72.5°	428.5	484.3	620.4	736.5	763.2
75°	345.9	410.6	549.0	613.7	613.7
77.5°	267.8	339.2	468.7	493.2	506.6
80°	194.2	272.3	352.6	381.6	377.2
82.5°	129.4	207.5	252.2	252.2	245.5
85°	73.6	125.0	136.1	131.7	129.4
87.5°	31.2	46.9	42.4	33.5	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)