

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: P260925

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260925  
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-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7106.0 lumens  
Efficiency: N/A  
Efficacy: 118.1 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

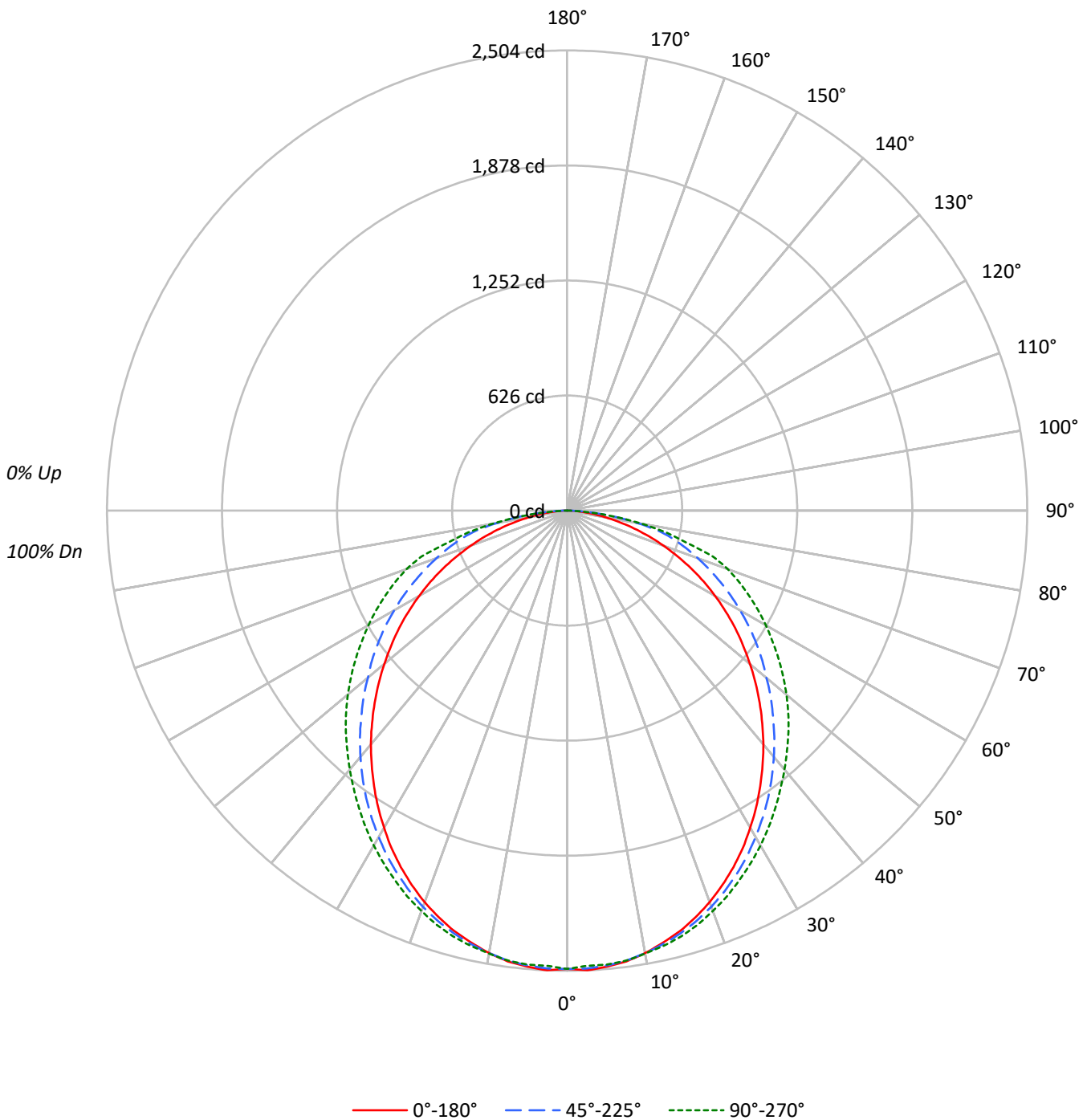
Input Watts (W): 60.171  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3355	3355	3355
5°	3365	3355	3348
10°	3341	3341	3344
15°	3301	3318	3342
20°	3247	3285	3320
25°	3178	3240	3294
30°	3096	3187	3270
35°	3009	3133	3245
40°	2919	3072	3231
45°	2819	3014	3241
50°	2719	2964	3259
55°	2620	2945	3293
60°	2501	2927	3359
65°	2370	2928	3470
70°	2192	2977	3656
75°	1960	3111	3478
80°	1640	2978	3186
85°	1240	2291	2178



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.7	3.3
10°-20°	670.7	9.4
20°-30°	1002.7	14.1
30°-40°	1189.5	16.7
40°-50°	1224.3	17.2
50°-60°	1123.1	15.8
60°-70°	908.1	12.8
70°-80°	589.4	8.3
80°-90°	162.5	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°	1909.1	26.9
0°-40°	3098.6	43.6
0°-60°	5446.0	76.6
0°-90°	7106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	7106.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2494	2494	2494	2494	2494	
5°	2491	2474	2484	2482	2479	236
15°	2370	2360	2382	2392	2399	668
25°	2141	2144	2182	2202	2219	985
35°	1832	1847	1908	1949	1976	1146
45°	1482	1506	1584	1659	1703	1143
55°	1117	1151	1255	1358	1404	998
65°	744	788	920	1041	1090	736
75°	377	448	598	669	669	401
85°	80	136	148	144	141	98
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2493.8	2493.8	2493.8	2493.8	2493.8
2.5°	2503.6	2484.1	2493.8	2491.4	2479.2
5°	2491.4	2474.4	2484.1	2481.7	2479.2
7.5°	2474.4	2457.3	2469.5	2467.1	2469.5
10°	2445.2	2430.6	2445.2	2447.6	2447.6
12.5°	2408.7	2396.5	2416.0	2420.8	2425.7
15°	2369.8	2360.0	2381.9	2391.7	2398.9
17.5°	2321.1	2313.8	2340.6	2352.7	2362.5
20°	2267.6	2265.1	2294.3	2306.5	2318.7
22.5°	2206.7	2206.7	2240.8	2255.4	2272.4
25°	2141.0	2143.5	2182.4	2201.9	2218.9
27.5°	2070.5	2072.9	2119.2	2143.5	2162.9
30°	1992.6	2002.4	2051.0	2082.7	2104.6
32.5°	1914.8	1926.9	1980.5	2017.0	2041.3
35°	1832.1	1846.7	1907.5	1948.8	1975.6
37.5°	1746.9	1763.9	1829.6	1875.9	1907.5
40°	1661.7	1681.2	1749.3	1802.9	1839.4
42.5°	1571.7	1593.6	1669.0	1732.3	1771.2
45°	1481.7	1506.0	1583.9	1659.3	1703.1
47.5°	1391.7	1420.9	1503.6	1586.3	1632.6
50°	1299.2	1328.4	1416.0	1510.9	1557.1
52.5°	1206.8	1240.8	1338.2	1435.5	1481.7
55°	1116.8	1150.8	1255.4	1357.6	1403.8
57.5°	1024.3	1058.4	1172.7	1279.8	1326.0
60°	929.4	968.3	1087.6	1197.0	1248.1
62.5°	837.0	878.3	1004.8	1121.6	1170.3
65°	744.5	788.3	919.7	1041.3	1090.0
67.5°	649.6	700.7	837.0	961.0	1012.1
70°	557.2	613.1	756.7	880.8	929.4
72.5°	467.1	528.0	676.4	802.9	832.1
75°	377.1	447.7	598.5	669.1	669.1
77.5°	292.0	369.8	510.9	537.7	552.3
80°	211.7	296.8	384.4	416.0	411.2
82.5°	141.1	226.3	274.9	274.9	267.6
85°	80.3	136.2	148.4	143.5	141.1
87.5°	34.1	51.1	46.2	36.5	31.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)