

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: P260922

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260922  
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-4500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6830.0 lumens  
Efficiency: N/A  
Efficacy: 114.8 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

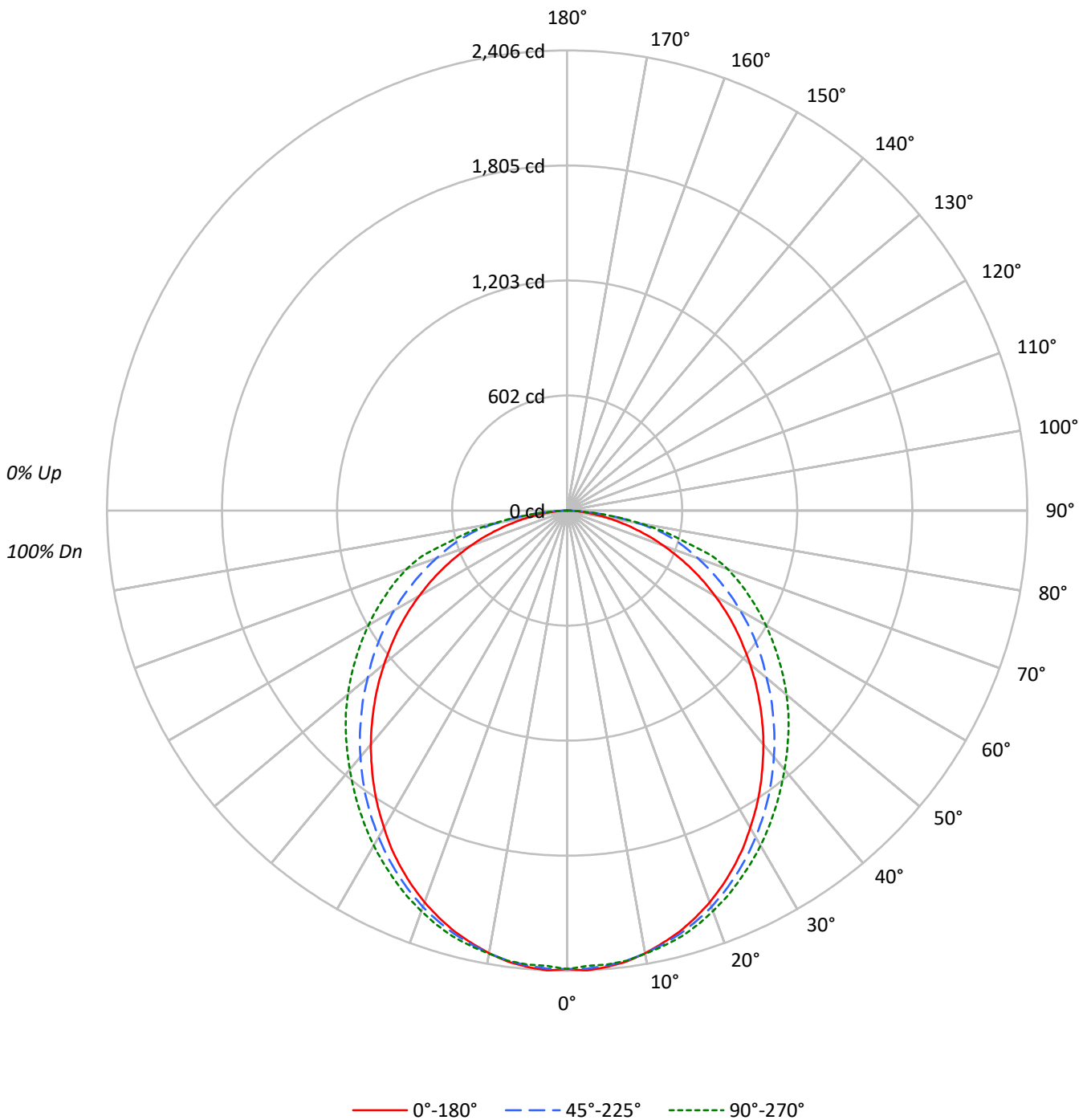
Input Watts (W): 59.52  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3225	3225	3225
5°	3234	3225	3218
10°	3211	3211	3214
15°	3173	3189	3212
20°	3121	3157	3191
25°	3055	3114	3166
30°	2976	3063	3143
35°	2892	3011	3119
40°	2805	2953	3105
45°	2710	2897	3115
50°	2614	2849	3133
55°	2518	2831	3165
60°	2404	2813	3228
65°	2278	2814	3336
70°	2107	2861	3514
75°	1884	2991	3343
80°	1577	2863	3062
85°	1192	2201	2093



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.5	3.3
10°-20°	644.7	9.4
20°-30°	963.7	14.1
30°-40°	1143.3	16.7
40°-50°	1176.7	17.2
50°-60°	1079.5	15.8
60°-70°	872.8	12.8
70°-80°	566.5	8.3
80°-90°	156.2	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°	1834.9	26.9
0°-40°	2978.2	43.6
0°-60°	5234.5	76.6
0°-90°	6830.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6830.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2397	2397	2397	2397	2397	
5°	2395	2378	2388	2385	2383	227
15°	2278	2268	2289	2299	2306	642
25°	2058	2060	2098	2116	2133	947
35°	1761	1775	1833	1873	1899	1101
45°	1424	1448	1522	1595	1637	1099
55°	1073	1106	1207	1305	1349	959
65°	716	758	884	1001	1048	707
75°	362	430	575	643	643	385
85°	77	131	143	138	136	94
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2397.0	2397.0	2397.0	2397.0	2397.0
2.5°	2406.3	2387.6	2397.0	2394.6	2382.9
5°	2394.6	2378.3	2387.6	2385.3	2382.9
7.5°	2378.3	2361.9	2373.6	2371.3	2373.6
10°	2350.2	2336.2	2350.2	2352.5	2352.5
12.5°	2315.1	2303.4	2322.1	2326.8	2331.5
15°	2277.7	2268.4	2289.4	2298.8	2305.8
17.5°	2230.9	2223.9	2249.6	2261.3	2270.7
20°	2179.5	2177.2	2205.2	2216.9	2228.6
22.5°	2121.0	2121.0	2153.8	2167.8	2184.2
25°	2057.9	2060.2	2097.6	2116.4	2132.7
27.5°	1990.1	1992.4	2036.8	2060.2	2078.9
30°	1915.2	1924.6	1971.4	2001.8	2022.8
32.5°	1840.4	1852.1	1903.5	1938.6	1962.0
35°	1760.9	1774.9	1833.4	1873.1	1898.9
37.5°	1679.1	1695.4	1758.6	1803.0	1833.4
40°	1597.2	1615.9	1681.4	1732.8	1767.9
42.5°	1510.7	1531.7	1604.2	1665.0	1702.4
45°	1424.2	1447.5	1522.4	1594.9	1637.0
47.5°	1337.6	1365.7	1445.2	1524.7	1569.1
50°	1248.8	1276.8	1361.0	1452.2	1496.6
52.5°	1159.9	1192.6	1286.2	1379.7	1424.2
55°	1073.4	1106.1	1206.7	1304.9	1349.3
57.5°	984.5	1017.3	1127.2	1230.1	1274.5
60°	893.3	930.7	1045.3	1150.5	1199.7
62.5°	804.4	844.2	965.8	1078.1	1124.8
65°	715.6	757.7	884.0	1000.9	1047.7
67.5°	624.4	673.5	804.4	923.7	972.8
70°	535.5	589.3	727.3	846.5	893.3
72.5°	449.0	507.5	650.1	771.7	799.8
75°	362.5	430.3	575.3	643.1	643.1
77.5°	280.6	355.5	491.1	516.8	530.8
80°	203.5	285.3	369.5	399.9	395.2
82.5°	135.6	217.5	264.3	264.3	257.2
85°	77.2	131.0	142.6	138.0	135.6
87.5°	32.7	49.1	44.4	35.1	30.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)