

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: P260921

Luminaire Tested: **24CZ-LD5-75-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260921  
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-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6658.0 lumens  
Efficiency: N/A  
Efficacy: 112.7 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

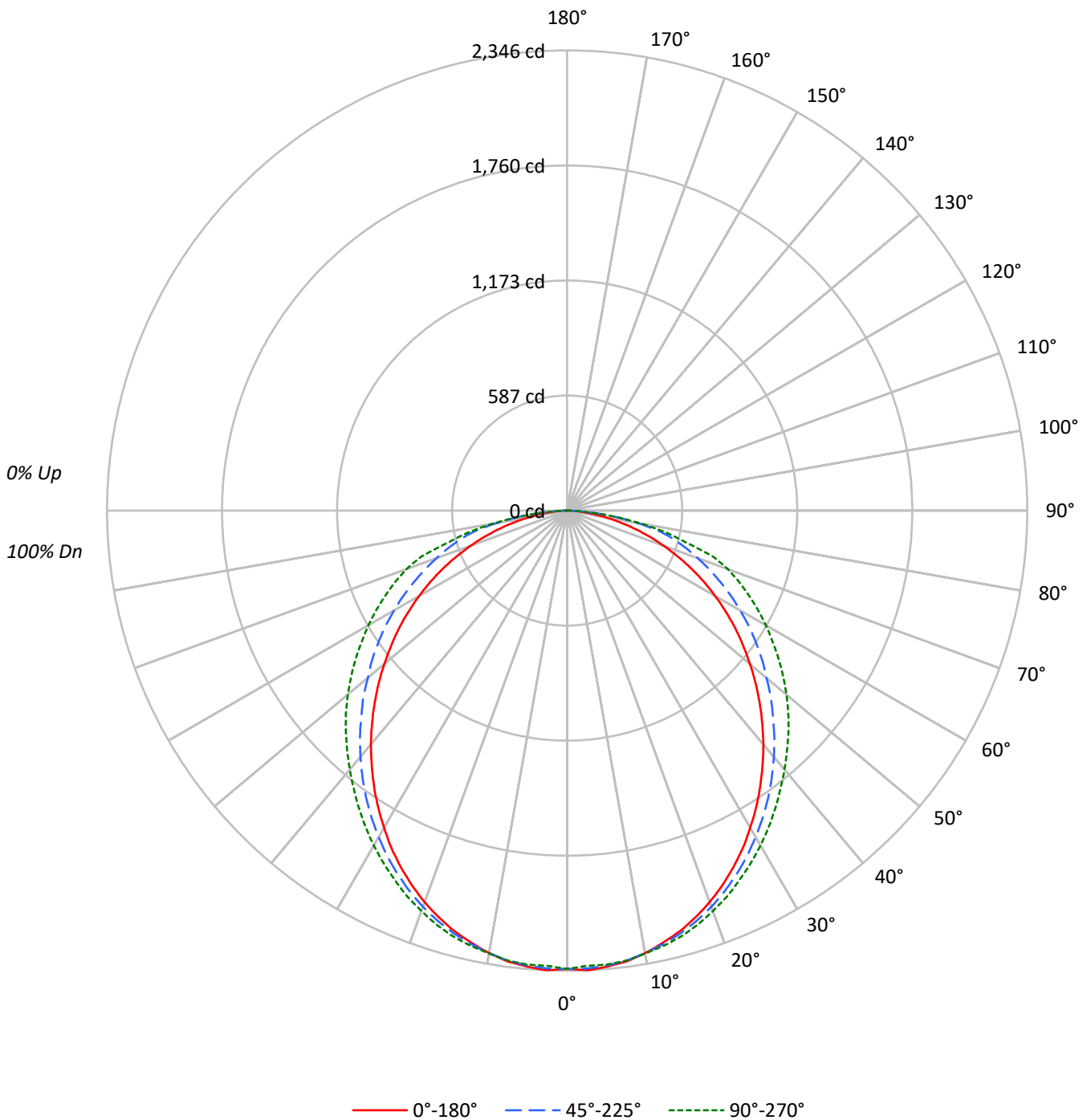
Input Watts (W): 59.055  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3144	3144	3144
5°	3153	3144	3137
10°	3130	3130	3133
15°	3093	3109	3131
20°	3042	3078	3111
25°	2978	3036	3086
30°	2901	2986	3064
35°	2820	2936	3041
40°	2735	2879	3027
45°	2642	2824	3036
50°	2548	2777	3054
55°	2454	2759	3085
60°	2343	2742	3147
65°	2221	2743	3252
70°	2054	2789	3426
75°	1837	2915	3259
80°	1537	2791	2985
85°	1161	2147	2041



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	220.8	3.3
10°-20°	628.4	9.4
20°-30°	939.5	14.1
30°-40°	1114.5	16.7
40°-50°	1147.1	17.2
50°-60°	1052.3	15.8
60°-70°	850.9	12.8
70°-80°	552.2	8.3
80°-90°	152.3	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°	1788.7	26.9
0°-40°	2903.2	43.6
0°-60°	5102.7	76.6
0°-90°	6658.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6658.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2337	2337	2337	2337	2337	
5°	2334	2318	2328	2325	2323	221
15°	2220	2211	2232	2241	2248	625
25°	2006	2008	2045	2063	2079	923
35°	1717	1730	1787	1826	1851	1073
45°	1388	1411	1484	1555	1596	1071
55°	1046	1078	1176	1272	1315	935
65°	698	739	862	976	1021	689
75°	353	420	561	627	627	376
85°	75	128	139	134	132	92
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2336.6	2336.6	2336.6	2336.6	2336.6
2.5°	2345.7	2327.5	2336.6	2334.3	2322.9
5°	2334.3	2318.4	2327.5	2325.2	2322.9
7.5°	2318.4	2302.4	2313.8	2311.5	2313.8
10°	2291.0	2277.3	2291.0	2293.3	2293.3
12.5°	2256.8	2245.4	2263.7	2268.2	2272.8
15°	2220.4	2211.2	2231.7	2240.9	2247.7
17.5°	2174.8	2167.9	2193.0	2204.4	2213.5
20°	2124.6	2122.3	2149.7	2161.1	2172.5
22.5°	2067.6	2067.6	2099.5	2113.2	2129.2
25°	2006.1	2008.3	2044.8	2063.1	2079.0
27.5°	1940.0	1942.2	1985.6	2008.3	2026.6
30°	1867.0	1876.1	1921.7	1951.4	1971.9
32.5°	1794.1	1805.5	1855.6	1889.8	1912.6
35°	1716.6	1730.2	1787.2	1826.0	1851.1
37.5°	1636.8	1652.7	1714.3	1757.6	1787.2
40°	1557.0	1575.2	1639.0	1689.2	1723.4
42.5°	1472.6	1493.2	1563.8	1623.1	1659.6
45°	1388.3	1411.1	1484.0	1554.7	1595.7
47.5°	1303.9	1331.3	1408.8	1486.3	1529.6
50°	1217.3	1244.7	1326.7	1415.6	1459.0
52.5°	1130.7	1162.6	1253.8	1345.0	1388.3
55°	1046.3	1078.3	1176.3	1272.0	1315.3
57.5°	959.7	991.6	1098.8	1199.1	1242.4
60°	870.8	907.3	1019.0	1121.6	1169.4
62.5°	784.2	822.9	941.5	1050.9	1096.5
65°	697.6	738.6	861.7	975.7	1021.3
67.5°	608.7	656.5	784.2	900.5	948.3
70°	522.0	574.5	709.0	825.2	870.8
72.5°	437.7	494.7	633.7	752.3	779.6
75°	353.3	419.5	560.8	626.9	626.9
77.5°	273.6	346.5	478.7	503.8	517.5
80°	198.3	278.1	360.2	389.8	385.3
82.5°	132.2	212.0	257.6	257.6	250.8
85°	75.2	127.7	139.1	134.5	132.2
87.5°	31.9	47.9	43.3	34.2	29.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)