

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: P260673

Luminaire Tested: **24CZ-LD5-75-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260673  
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-L93050-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6407.3 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

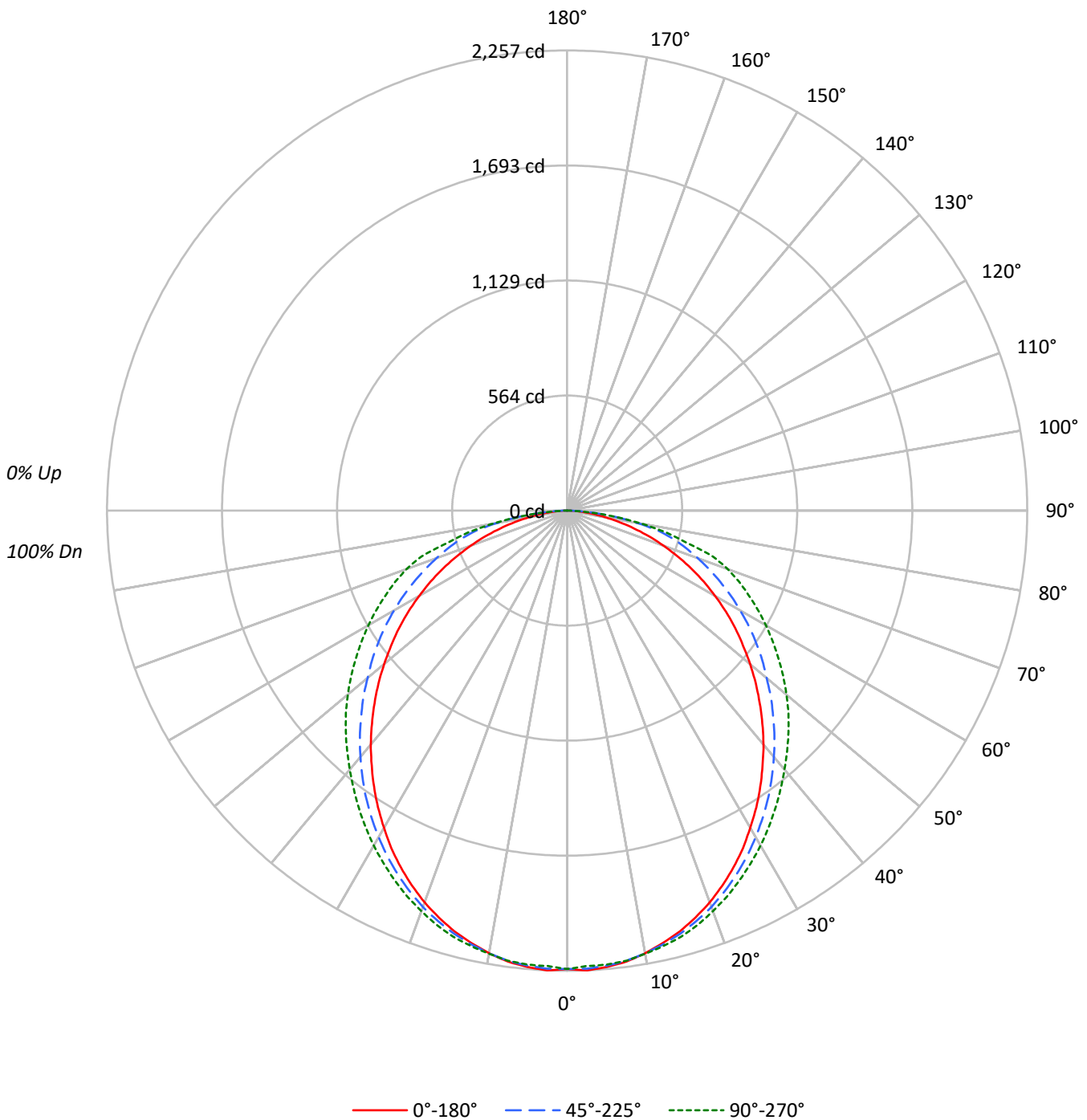
Input Watts (W): 59.513676  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	3025	3025	3025
5°	3034	3025	3019
10°	3012	3012	3015
15°	2976	2992	3013
20°	2928	2962	2994
25°	2866	2921	2970
30°	2791	2873	2948
35°	2713	2825	2926
40°	2632	2770	2913
45°	2542	2718	2922
50°	2452	2673	2939
55°	2362	2655	2969
60°	2255	2639	3028
65°	2137	2640	3129
70°	1976	2684	3297
75°	1768	2806	3136
80°	1479	2686	2872
85°	1118	2066	1964



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.5	3.3
10°-20°	604.8	9.4
20°-30°	904.1	14.1
30°-40°	1072.5	16.7
40°-50°	1103.9	17.2
50°-60°	1012.7	15.8
60°-70°	818.8	12.8
70°-80°	531.4	8.3
80°-90°	146.5	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°	1721.4	26.9
0°-40°	2793.9	43.6
0°-60°	4910.5	76.6
0°-90°	6407.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6407.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2249	2249	2249	2249	2249	
5°	2246	2231	2240	2238	2236	213
15°	2137	2128	2148	2156	2163	602
25°	1930	1933	1968	1985	2001	889
35°	1652	1665	1720	1757	1781	1033
45°	1336	1358	1428	1496	1536	1031
55°	1007	1038	1132	1224	1266	900
65°	671	711	829	939	983	663
75°	340	404	540	603	603	361
85°	72	123	134	129	127	89
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2248.6	2248.6	2248.6	2248.6	2248.6
2.5°	2257.4	2239.9	2248.6	2246.4	2235.5
5°	2246.4	2231.1	2239.9	2237.7	2235.5
7.5°	2231.1	2215.7	2226.7	2224.5	2226.7
10°	2204.8	2191.6	2204.8	2206.9	2206.9
12.5°	2171.8	2160.9	2178.4	2182.8	2187.2
15°	2136.7	2128.0	2147.7	2156.5	2163.1
17.5°	2092.9	2086.3	2110.4	2121.4	2130.2
20°	2044.6	2042.4	2068.7	2079.7	2090.7
22.5°	1989.8	1989.8	2020.5	2033.6	2049.0
25°	1930.5	1932.7	1967.8	1985.4	2000.7
27.5°	1866.9	1869.1	1910.8	1932.7	1950.3
30°	1796.7	1805.5	1849.4	1877.9	1897.6
32.5°	1726.5	1737.5	1785.7	1818.6	1840.6
35°	1651.9	1665.1	1719.9	1757.2	1781.4
37.5°	1575.1	1590.5	1649.7	1691.4	1719.9
40°	1498.4	1515.9	1577.3	1625.6	1658.5
42.5°	1417.2	1436.9	1504.9	1562.0	1597.1
45°	1336.0	1358.0	1428.2	1496.2	1535.6
47.5°	1254.8	1281.2	1355.8	1430.3	1472.0
50°	1171.5	1197.8	1276.8	1362.3	1404.0
52.5°	1088.1	1118.8	1206.6	1294.3	1336.0
55°	1006.9	1037.7	1132.0	1224.1	1265.8
57.5°	923.6	954.3	1057.4	1153.9	1195.6
60°	838.0	873.1	980.6	1079.3	1125.4
62.5°	754.7	792.0	906.0	1011.3	1055.2
65°	671.3	710.8	829.3	938.9	982.8
67.5°	585.7	631.8	754.7	866.5	912.6
70°	502.4	552.8	682.3	794.2	838.0
72.5°	421.2	476.1	609.9	723.9	750.3
75°	340.0	403.7	539.7	603.3	603.3
77.5°	263.3	333.5	460.7	484.8	498.0
80°	190.9	267.6	346.6	375.1	370.7
82.5°	127.2	204.0	247.9	247.9	241.3
85°	72.4	122.9	133.8	129.4	127.2
87.5°	30.7	46.1	41.7	32.9	28.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)