

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: P260917

Luminaire Tested: **24CZ-LD5-70-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260917  
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-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6692.0 lumens  
Efficiency: N/A  
Efficacy: 119.1 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

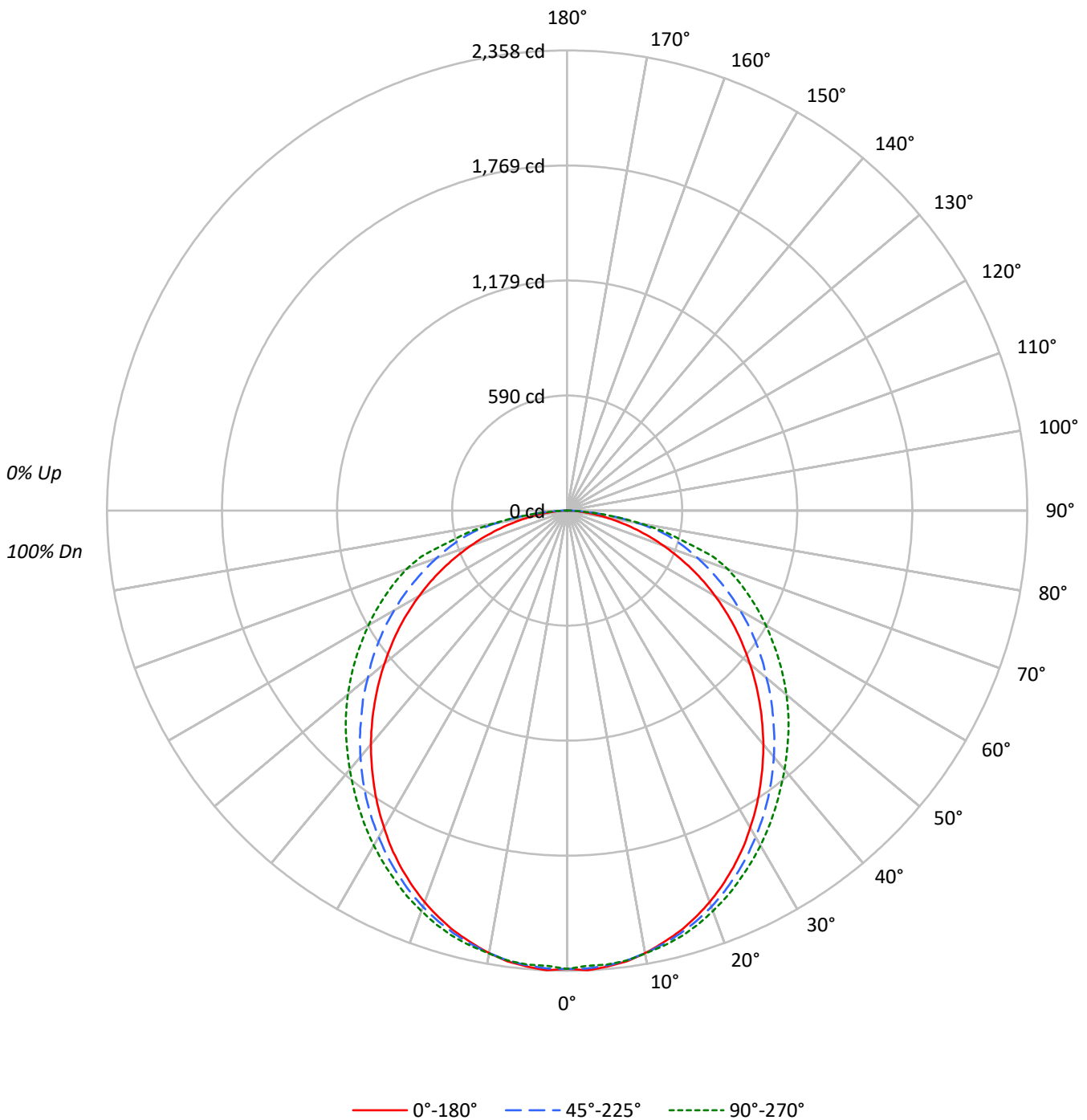
Input Watts (W): 56.172  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68					68			
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57					57			
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42					42			
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37					37			
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32					32			
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29					29			
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26					26			
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24					24			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	3160	3160	3160
5°	3169	3160	3153
10°	3146	3146	3149
15°	3109	3125	3147
20°	3058	3094	3127
25°	2993	3051	3102
30°	2915	3001	3079
35°	2834	2950	3056
40°	2749	2894	3042
45°	2655	2838	3052
50°	2561	2791	3069
55°	2467	2773	3101
60°	2355	2756	3163
65°	2232	2757	3268
70°	2064	2803	3443
75°	1846	2930	3276
80°	1544	2805	3000
85°	1167	2158	2052



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	221.9	3.3
10°-20°	631.6	9.4
20°-30°	944.3	14.1
30°-40°	1120.2	16.7
40°-50°	1153.0	17.2
50°-60°	1057.7	15.8
60°-70°	855.2	12.8
70°-80°	555.0	8.3
80°-90°	153.0	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°	1797.8	26.9
0°-40°	2918.0	43.6
0°-60°	5128.7	76.6
0°-90°	6692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6692.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2348	2348	2348	2348	2348	
5°	2346	2330	2339	2337	2335	223
15°	2232	2222	2243	2252	2259	629
25°	2016	2019	2055	2074	2090	928
35°	1725	1739	1796	1835	1860	1079
45°	1395	1418	1492	1563	1604	1077
55°	1052	1084	1182	1278	1322	940
65°	701	742	866	981	1026	693
75°	355	422	564	630	630	377
85°	76	128	140	135	133	93
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2348.5	2348.5	2348.5	2348.5	2348.5
2.5°	2357.7	2339.4	2348.5	2346.3	2334.8
5°	2346.3	2330.2	2339.4	2337.1	2334.8
7.5°	2330.2	2314.2	2325.6	2323.3	2325.6
10°	2302.7	2289.0	2302.7	2305.0	2305.0
12.5°	2268.3	2256.9	2275.2	2279.8	2284.4
15°	2231.7	2222.5	2243.1	2252.3	2259.2
17.5°	2185.9	2179.0	2204.2	2215.7	2224.8
20°	2135.5	2133.2	2160.7	2172.1	2183.6
22.5°	2078.2	2078.2	2110.3	2124.0	2140.0
25°	2016.3	2018.6	2055.3	2073.6	2089.6
27.5°	1949.9	1952.2	1995.7	2018.6	2036.9
30°	1876.5	1885.7	1931.5	1961.3	1981.9
32.5°	1803.2	1814.7	1865.1	1899.5	1922.4
35°	1725.3	1739.1	1796.3	1835.3	1860.5
37.5°	1645.1	1661.2	1723.0	1766.6	1796.3
40°	1564.9	1583.3	1647.4	1697.8	1732.2
42.5°	1480.2	1500.8	1571.8	1631.4	1668.0
45°	1395.4	1418.3	1491.6	1562.6	1603.9
47.5°	1310.6	1338.1	1416.0	1493.9	1537.4
50°	1223.5	1251.0	1333.5	1422.9	1466.4
52.5°	1136.5	1168.5	1260.2	1351.8	1395.4
55°	1051.7	1083.8	1182.3	1278.5	1322.1
57.5°	964.6	996.7	1104.4	1205.2	1248.7
60°	875.3	911.9	1024.2	1127.3	1175.4
62.5°	788.2	827.1	946.3	1056.3	1102.1
65°	701.1	742.4	866.1	980.7	1026.5
67.5°	611.8	659.9	788.2	905.0	953.2
70°	524.7	577.4	712.6	829.4	875.3
72.5°	439.9	497.2	637.0	756.1	783.6
75°	355.1	421.6	563.7	630.1	630.1
77.5°	275.0	348.3	481.2	506.4	520.1
80°	199.3	279.5	362.0	391.8	387.2
82.5°	132.9	213.1	258.9	258.9	252.0
85°	75.6	128.3	139.8	135.2	132.9
87.5°	32.1	48.1	43.5	34.4	29.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)