

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: P261175

Luminaire Tested: **24CZ-LD5-55-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261175  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-55-S-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5917.0 lumens  
Efficiency: N/A  
Efficacy: 141.4 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

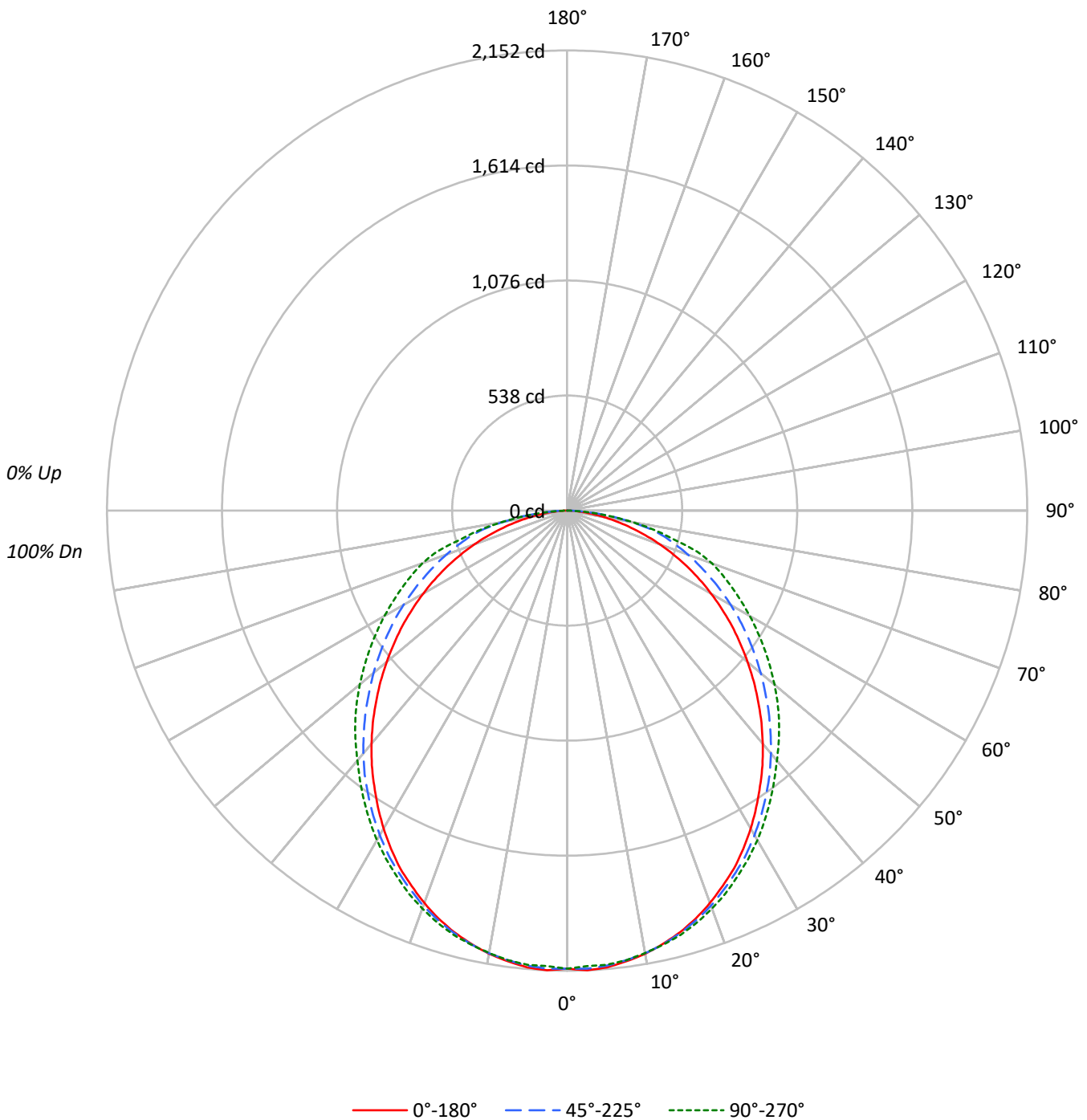
Input Watts (W): 41.85  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	2882	2882	2882
5°	2896	2885	2880
10°	2876	2873	2870
15°	2844	2849	2860
20°	2797	2816	2836
25°	2742	2771	2800
30°	2667	2722	2765
35°	2584	2665	2720
40°	2500	2604	2680
45°	2405	2536	2667
50°	2308	2473	2650
55°	2208	2420	2642
60°	2093	2379	2654
65°	1968	2351	2708
70°	1812	2362	2835
75°	1607	2446	2641
80°	1343	2319	2380
85°	1003	1854	1703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	202.5	3.4
10°-20°	576.0	9.7
20°-30°	858.4	14.5
30°-40°	1010.4	17.1
40°-50°	1026.8	17.4
50°-60°	923.2	15.6
60°-70°	729.3	12.3
70°-80°	462.7	7.8
80°-90°	127.7	2.2
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°	1636.9	27.7
0°-40°	2647.3	44.7
0°-60°	4597.3	77.7
0°-90°	5917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5917.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2142	2142	2142	2142	2142	
5°	2144	2126	2136	2132	2132	203
15°	2042	2032	2046	2052	2054	575
25°	1847	1845	1866	1878	1886	849
35°	1573	1583	1622	1640	1656	984
45°	1264	1282	1333	1372	1402	975
55°	941	965	1032	1099	1126	840
65°	618	650	738	819	850	612
75°	309	362	470	512	508	329
85°	65	112	120	110	110	80
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2142.1	2142.1	2142.1	2142.1	2142.1
2.5°	2151.9	2136.2	2144.0	2140.1	2132.2
5°	2144.0	2126.3	2136.2	2132.2	2132.2
7.5°	2126.3	2112.5	2120.4	2118.4	2120.4
10°	2104.7	2090.9	2102.7	2102.7	2100.7
12.5°	2075.1	2063.3	2077.1	2077.1	2079.1
15°	2041.7	2031.8	2045.6	2051.5	2053.5
17.5°	2000.3	1990.5	2008.2	2014.1	2020.0
20°	1953.1	1949.1	1966.8	1972.7	1980.6
22.5°	1899.9	1899.9	1917.6	1925.5	1937.3
25°	1846.7	1844.8	1866.4	1878.2	1886.1
27.5°	1783.7	1785.7	1813.3	1825.1	1834.9
30°	1716.8	1720.7	1752.2	1766.0	1779.8
32.5°	1645.9	1653.8	1689.2	1705.0	1718.8
35°	1573.1	1582.9	1622.3	1640.0	1655.8
37.5°	1500.2	1514.0	1555.4	1573.1	1590.8
40°	1423.4	1435.3	1482.5	1504.2	1525.8
42.5°	1344.7	1360.4	1407.7	1439.2	1464.8
45°	1264.0	1281.7	1332.9	1372.3	1401.8
47.5°	1183.3	1206.9	1256.1	1309.3	1334.9
50°	1102.5	1126.2	1181.3	1240.3	1265.9
52.5°	1019.8	1043.5	1106.5	1167.5	1195.1
55°	941.1	964.7	1031.7	1098.6	1126.2
57.5°	858.4	884.0	958.8	1027.7	1055.3
60°	777.7	803.3	884.0	956.8	986.4
62.5°	698.9	726.5	811.1	887.9	917.5
65°	618.2	649.7	738.3	819.0	850.5
67.5°	539.5	574.9	667.4	752.1	785.6
70°	460.7	502.0	600.5	687.1	720.6
72.5°	383.9	429.2	533.5	620.2	637.9
75°	309.1	362.3	470.5	511.9	508.0
77.5°	238.2	297.3	399.7	407.5	419.4
80°	173.3	238.2	299.3	315.0	307.1
82.5°	114.2	179.2	214.6	206.7	204.8
85°	65.0	112.2	120.1	110.3	110.3
87.5°	27.6	45.3	39.4	29.5	27.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)