

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: P261307

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261307  
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-L92765-W2A1-U-5000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5233.0 lumens  
Efficiency: N/A  
Efficacy: 127.6 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

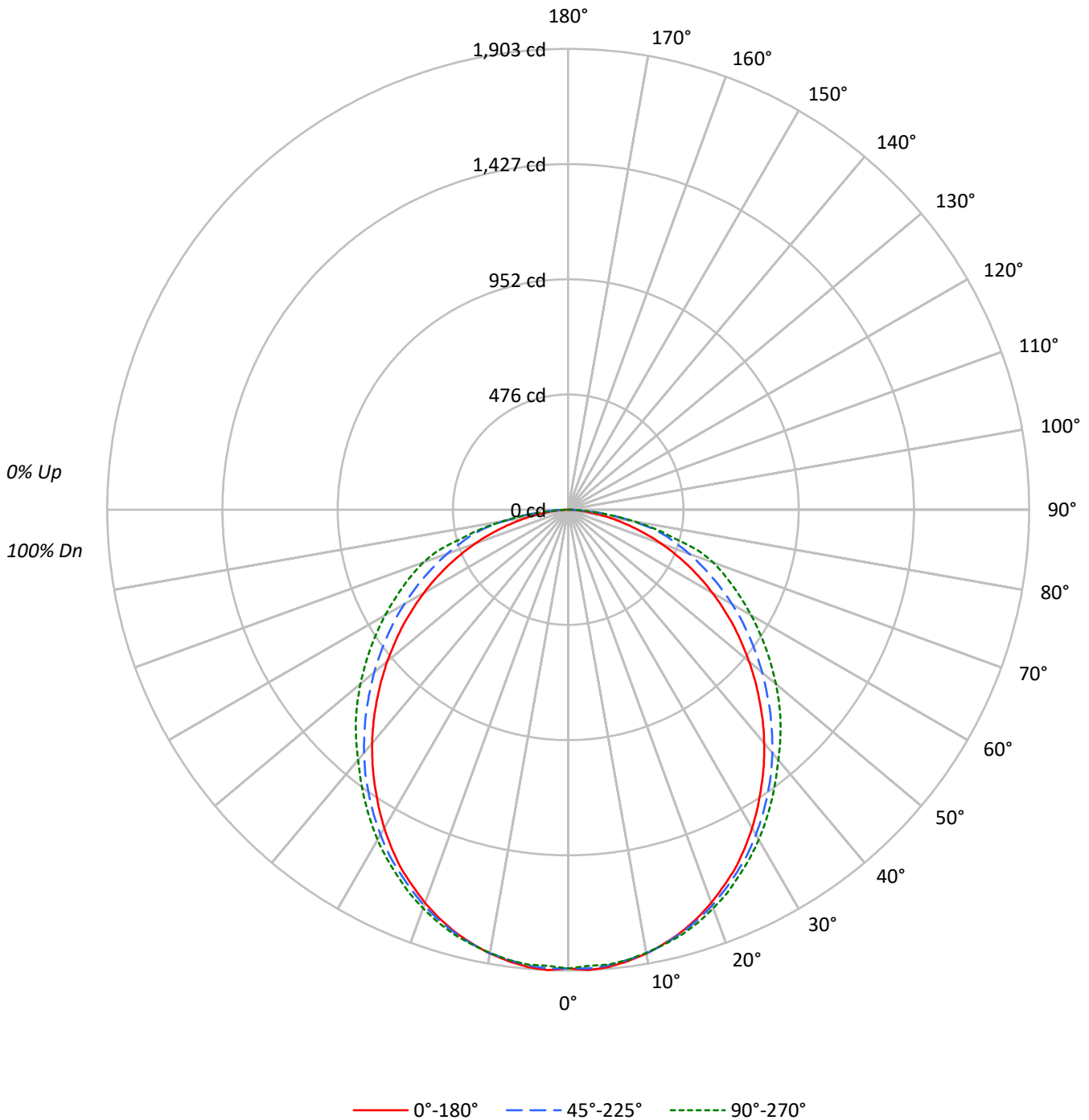
Input Watts (W): 41.013  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

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

	0°	45°	90°
0°	2549	2549	2549
5°	2561	2552	2547
10°	2543	2541	2538
15°	2515	2520	2530
20°	2473	2491	2508
25°	2425	2451	2476
30°	2359	2408	2446
35°	2285	2357	2405
40°	2211	2303	2370
45°	2127	2243	2359
50°	2041	2187	2344
55°	1952	2140	2336
60°	1851	2104	2347
65°	1741	2079	2395
70°	1603	2089	2507
75°	1421	2164	2335
80°	1187	2051	2104
85°	888	1639	1505



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.1	3.4
10°-20°	509.4	9.7
20°-30°	759.1	14.5
30°-40°	893.6	17.1
40°-50°	908.1	17.4
50°-60°	816.5	15.6
60°-70°	645.0	12.3
70°-80°	409.2	7.8
80°-90°	112.9	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°	1447.6	27.7
0°-40°	2341.3	44.7
0°-60°	4065.8	77.7
0°-90°	5233.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5233.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1894	1894	1894	1894	1894	
5°	1896	1880	1889	1886	1886	180
15°	1806	1797	1809	1814	1816	509
25°	1633	1632	1651	1661	1668	751
35°	1391	1400	1435	1450	1464	870
45°	1118	1134	1179	1214	1240	863
55°	832	853	912	972	996	743
65°	547	575	653	724	752	542
75°	273	320	416	453	449	291
85°	58	99	106	98	98	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1894.4	1894.4	1894.4	1894.4	1894.4
2.5°	1903.1	1889.2	1896.2	1892.7	1885.7
5°	1896.2	1880.5	1889.2	1885.7	1885.7
7.5°	1880.5	1868.3	1875.3	1873.5	1875.3
10°	1861.4	1849.2	1859.6	1859.6	1857.9
12.5°	1835.2	1824.8	1837.0	1837.0	1838.7
15°	1805.6	1796.9	1809.1	1814.3	1816.1
17.5°	1769.1	1760.4	1776.0	1781.3	1786.5
20°	1727.3	1723.8	1739.5	1744.7	1751.7
22.5°	1680.3	1680.3	1695.9	1702.9	1713.4
25°	1633.3	1631.5	1650.7	1661.1	1668.1
27.5°	1577.5	1579.3	1603.7	1614.1	1622.8
30°	1518.3	1521.8	1549.7	1561.9	1574.1
32.5°	1455.7	1462.6	1494.0	1507.9	1520.1
35°	1391.2	1399.9	1434.8	1450.4	1464.4
37.5°	1326.8	1339.0	1375.6	1391.2	1406.9
40°	1258.9	1269.3	1311.1	1330.3	1349.4
42.5°	1189.3	1203.2	1245.0	1272.8	1295.5
45°	1117.9	1133.5	1178.8	1213.6	1239.7
47.5°	1046.5	1067.4	1110.9	1157.9	1180.5
50°	975.1	996.0	1044.7	1097.0	1119.6
52.5°	901.9	922.8	978.6	1032.5	1056.9
55°	832.3	853.2	912.4	971.6	996.0
57.5°	759.2	781.8	848.0	908.9	933.3
60°	687.8	710.4	781.8	846.2	872.3
62.5°	618.1	642.5	717.4	785.3	811.4
65°	546.7	574.6	653.0	724.3	752.2
67.5°	477.1	508.4	590.3	665.1	694.7
70°	407.4	444.0	531.1	607.7	637.3
72.5°	339.5	379.6	471.9	548.5	564.2
75°	273.4	320.4	416.2	452.7	449.2
77.5°	210.7	262.9	353.5	360.4	370.9
80°	153.2	210.7	264.7	278.6	271.6
82.5°	101.0	158.5	189.8	182.8	181.1
85°	57.5	99.2	106.2	97.5	97.5
87.5°	24.4	40.0	34.8	26.1	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)