

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: P260890

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260890  
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-LD5-55-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: 5267.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 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

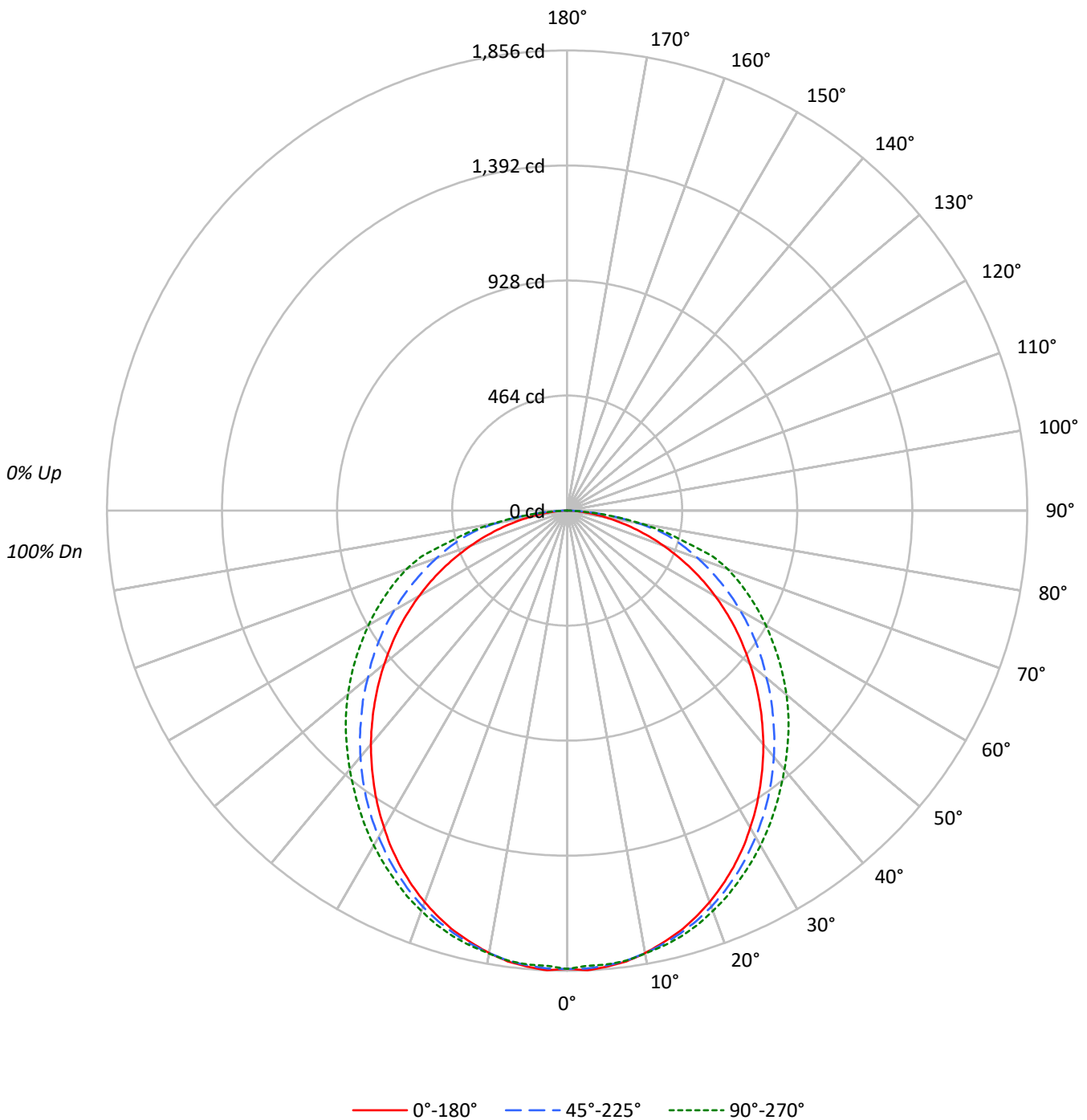
Input Watts (W): 41.943  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2487	2487	2487
5°	2494	2487	2482
10°	2476	2476	2479
15°	2447	2459	2477
20°	2406	2435	2461
25°	2356	2401	2442
30°	2295	2362	2424
35°	2230	2322	2405
40°	2163	2277	2395
45°	2090	2234	2402
50°	2016	2197	2416
55°	1942	2183	2441
60°	1854	2169	2489
65°	1757	2170	2572
70°	1625	2206	2710
75°	1453	2306	2578
80°	1216	2208	2362
85°	919	1698	1615



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	174.7	3.3
10°-20°	497.1	9.4
20°-30°	743.2	14.1
30°-40°	881.7	16.7
40°-50°	907.5	17.2
50°-60°	832.5	15.8
60°-70°	673.1	12.8
70°-80°	436.8	8.3
80°-90°	120.5	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°	1415.0	26.9
0°-40°	2296.7	43.6
0°-60°	4036.6	76.6
0°-90°	5267.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5267.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1848	1848	1848	1848	1848	
5°	1847	1834	1841	1839	1838	175
15°	1756	1749	1766	1773	1778	495
25°	1587	1589	1618	1632	1645	730
35°	1358	1369	1414	1444	1464	849
45°	1098	1116	1174	1230	1262	848
55°	828	853	930	1006	1040	739
65°	552	584	682	772	808	545
75°	280	332	444	496	496	297
85°	60	101	110	106	105	73
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1848.4	1848.4	1848.4	1848.4	1848.4
2.5°	1855.7	1841.2	1848.4	1846.6	1837.6
5°	1846.6	1834.0	1841.2	1839.4	1837.6
7.5°	1834.0	1821.4	1830.4	1828.6	1830.4
10°	1812.4	1801.6	1812.4	1814.2	1814.2
12.5°	1785.3	1776.3	1790.7	1794.3	1797.9
15°	1756.5	1749.3	1765.5	1772.7	1778.1
17.5°	1720.4	1715.0	1734.8	1743.8	1751.1
20°	1680.7	1678.9	1700.6	1709.6	1718.6
22.5°	1635.6	1635.6	1660.9	1671.7	1684.3
25°	1587.0	1588.8	1617.6	1632.0	1644.7
27.5°	1534.7	1536.5	1570.7	1588.8	1603.2
30°	1477.0	1484.2	1520.2	1543.7	1559.9
32.5°	1419.2	1428.3	1467.9	1495.0	1513.0
35°	1357.9	1368.7	1413.8	1444.5	1464.3
37.5°	1294.8	1307.4	1356.1	1390.4	1413.8
40°	1231.7	1246.1	1296.6	1336.3	1363.3
42.5°	1165.0	1181.2	1237.1	1284.0	1312.8
45°	1098.2	1116.3	1174.0	1229.9	1262.4
47.5°	1031.5	1053.2	1114.5	1175.8	1210.1
50°	963.0	984.6	1049.6	1119.9	1154.1
52.5°	894.5	919.7	991.8	1064.0	1098.2
55°	827.7	853.0	930.5	1006.3	1040.5
57.5°	759.2	784.5	869.2	948.6	982.8
60°	688.9	717.7	806.1	887.3	925.1
62.5°	620.4	651.0	744.8	831.3	867.4
65°	551.8	584.3	681.7	771.8	807.9
67.5°	481.5	519.4	620.4	712.3	750.2
70°	413.0	454.4	560.8	652.8	688.9
72.5°	346.2	391.3	501.3	595.1	616.7
75°	279.5	331.8	443.6	495.9	495.9
77.5°	216.4	274.1	378.7	398.5	409.4
80°	156.9	220.0	284.9	308.4	304.8
82.5°	104.6	167.7	203.8	203.8	198.4
85°	59.5	101.0	110.0	106.4	104.6
87.5°	25.2	37.9	34.3	27.1	23.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)