

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: P260889

Luminaire Tested: **24CZ-LD5-55-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260889  
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-5700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5232.0 lumens  
Efficiency: N/A  
Efficacy: 126.7 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

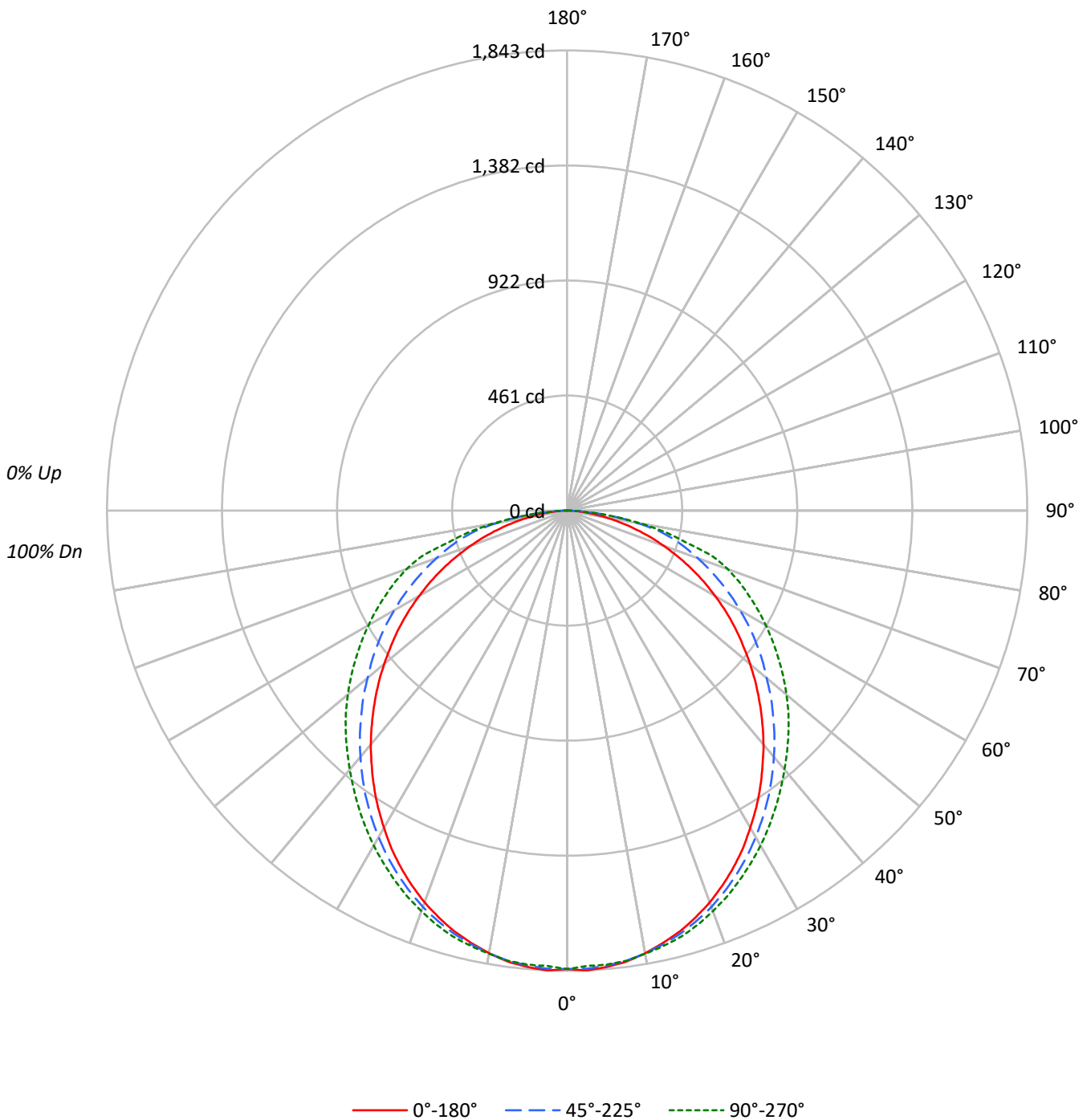
Input Watts (W): 41.292  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2471	2471	2471
5°	2478	2470	2465
10°	2460	2460	2462
15°	2430	2443	2460
20°	2391	2419	2444
25°	2340	2386	2425
30°	2279	2346	2407
35°	2216	2307	2389
40°	2149	2262	2379
45°	2076	2219	2386
50°	2002	2182	2400
55°	1929	2168	2425
60°	1841	2155	2473
65°	1745	2156	2555
70°	1614	2192	2692
75°	1444	2291	2561
80°	1207	2193	2345
85°	912	1687	1604



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	173.5	3.3
10°-20°	493.8	9.4
20°-30°	738.3	14.1
30°-40°	875.8	16.7
40°-50°	901.4	17.2
50°-60°	826.9	15.8
60°-70°	668.6	12.8
70°-80°	433.9	8.3
80°-90°	119.6	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°	1405.6	26.9
0°-40°	2281.4	43.6
0°-60°	4009.8	76.6
0°-90°	5232.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5232.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1836	1836	1836	1836	1836	
5°	1834	1822	1829	1827	1825	174
15°	1745	1738	1754	1761	1766	492
25°	1576	1578	1607	1621	1634	726
35°	1349	1360	1404	1435	1455	844
45°	1091	1109	1166	1222	1254	842
55°	822	847	924	1000	1034	735
65°	548	580	677	767	802	542
75°	278	330	441	493	493	295
85°	59	100	109	106	104	72
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1836.2	1836.2	1836.2	1836.2	1836.2
2.5°	1843.3	1829.0	1836.2	1834.4	1825.4
5°	1834.4	1821.8	1829.0	1827.2	1825.4
7.5°	1821.8	1809.3	1818.2	1816.5	1818.2
10°	1800.3	1789.6	1800.3	1802.1	1802.1
12.5°	1773.5	1764.5	1778.8	1782.4	1786.0
15°	1744.8	1737.6	1753.8	1760.9	1766.3
17.5°	1709.0	1703.6	1723.3	1732.3	1739.4
20°	1669.6	1667.8	1689.3	1698.2	1707.2
22.5°	1624.8	1624.8	1649.9	1660.6	1673.1
25°	1576.4	1578.2	1606.9	1621.2	1633.7
27.5°	1524.5	1526.3	1560.3	1578.2	1592.5
30°	1467.1	1474.3	1510.1	1533.4	1549.5
32.5°	1409.8	1418.8	1458.2	1485.1	1503.0
35°	1348.9	1359.7	1404.4	1434.9	1454.6
37.5°	1286.2	1298.7	1347.1	1381.2	1404.4
40°	1223.5	1237.8	1288.0	1327.4	1354.3
42.5°	1157.2	1173.4	1228.9	1275.5	1304.1
45°	1090.9	1108.9	1166.2	1221.7	1254.0
47.5°	1024.7	1046.2	1107.1	1168.0	1202.0
50°	956.6	978.1	1042.6	1112.4	1146.5
52.5°	888.5	913.6	985.3	1056.9	1090.9
55°	822.2	847.3	924.3	999.6	1033.6
57.5°	754.2	779.2	863.4	942.3	976.3
60°	684.3	713.0	800.7	881.4	919.0
62.5°	616.2	646.7	739.8	825.8	861.7
65°	548.2	580.4	677.1	766.7	802.5
67.5°	478.3	515.9	616.2	707.6	745.2
70°	410.2	451.4	557.1	648.5	684.3
72.5°	343.9	388.7	498.0	591.2	612.7
75°	277.7	329.6	440.7	492.6	492.6
77.5°	215.0	272.3	376.2	395.9	406.6
80°	155.8	218.5	283.0	306.3	302.7
82.5°	103.9	166.6	202.4	202.4	197.1
85°	59.1	100.3	109.3	105.7	103.9
87.5°	25.1	37.6	34.0	26.9	23.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)