

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: P260900

Luminaire Tested: **24CZ-LD5-65-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260900  
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-LD5-65-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5122.0 lumens  
Efficiency: N/A  
Efficacy: 104.9 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

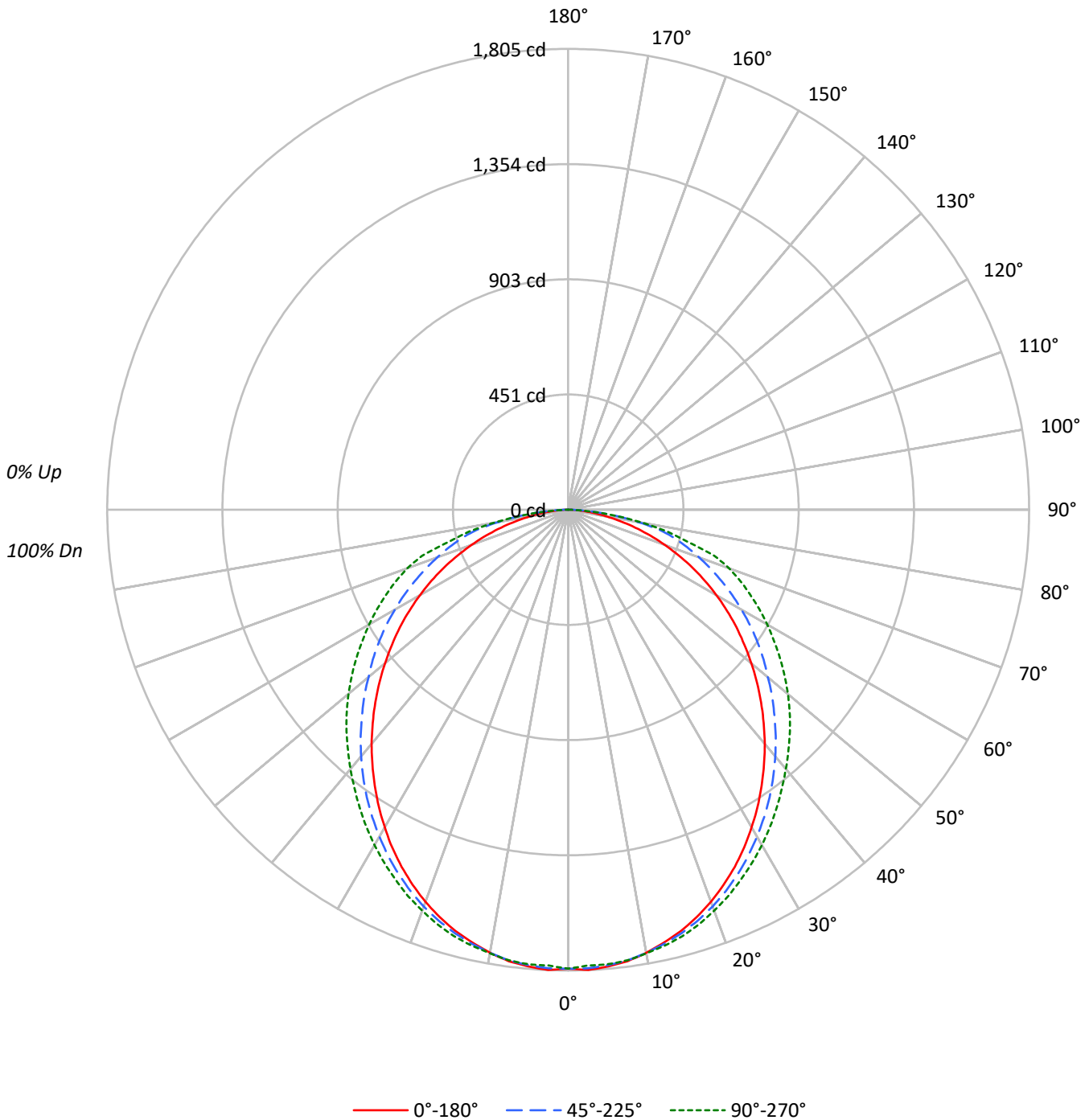
Input Watts (W): 48.825  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2419	2419	2419
5°	2425	2418	2414
10°	2408	2408	2410
15°	2379	2392	2409
20°	2340	2368	2393
25°	2291	2335	2374
30°	2231	2297	2357
35°	2169	2258	2339
40°	2104	2215	2329
45°	2032	2172	2336
50°	1960	2137	2349
55°	1888	2123	2374
60°	1803	2109	2421
65°	1708	2110	2501
70°	1580	2146	2635
75°	1413	2243	2507
80°	1182	2147	2297
85°	894	1652	1570



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	169.9	3.3
10°-20°	483.5	9.4
20°-30°	722.7	14.1
30°-40°	857.4	16.7
40°-50°	882.5	17.2
50°-60°	809.6	15.8
60°-70°	654.6	12.8
70°-80°	424.8	8.3
80°-90°	117.1	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°	1376.1	26.9
0°-40°	2233.4	43.6
0°-60°	3925.5	76.6
0°-90°	5122.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5122.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1798	1798	1798	1798	1798	
5°	1796	1784	1790	1789	1787	170
15°	1708	1701	1717	1724	1729	481
25°	1543	1545	1573	1587	1599	710
35°	1320	1331	1375	1405	1424	826
45°	1068	1086	1142	1196	1228	824
55°	805	830	905	979	1012	719
65°	537	568	663	751	786	530
75°	272	323	431	482	482	289
85°	58	98	107	104	102	71
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1797.6	1797.6	1797.6	1797.6	1797.6
2.5°	1804.6	1790.5	1797.6	1795.8	1787.0
5°	1795.8	1783.5	1790.5	1788.8	1787.0
7.5°	1783.5	1771.2	1780.0	1778.3	1780.0
10°	1762.5	1752.0	1762.5	1764.2	1764.2
12.5°	1736.2	1727.4	1741.4	1744.9	1748.5
15°	1708.1	1701.1	1716.9	1723.9	1729.2
17.5°	1673.0	1667.8	1687.1	1695.8	1702.9
20°	1634.5	1632.7	1653.8	1662.5	1671.3
22.5°	1590.6	1590.6	1615.2	1625.7	1638.0
25°	1543.3	1545.0	1573.1	1587.1	1599.4
27.5°	1492.4	1494.2	1527.5	1545.0	1559.1
30°	1436.3	1443.3	1478.4	1501.2	1517.0
32.5°	1380.2	1388.9	1427.5	1453.8	1471.4
35°	1320.5	1331.1	1374.9	1404.7	1424.0
37.5°	1259.2	1271.4	1318.8	1352.1	1374.9
40°	1197.8	1211.8	1260.9	1299.5	1325.8
42.5°	1132.9	1148.7	1203.0	1248.6	1276.7
45°	1068.0	1085.5	1141.7	1196.0	1227.6
47.5°	1003.1	1024.2	1083.8	1143.4	1176.7
50°	936.5	957.5	1020.7	1089.1	1122.4
52.5°	869.8	894.4	964.5	1034.7	1068.0
55°	805.0	829.5	904.9	978.6	1011.9
57.5°	738.3	762.9	845.3	922.5	955.8
60°	669.9	698.0	783.9	862.8	899.7
62.5°	603.3	633.1	724.3	808.5	843.5
65°	536.6	568.2	662.9	750.6	785.7
67.5°	468.2	505.1	603.3	692.7	729.5
70°	401.6	441.9	545.4	634.8	669.9
72.5°	336.7	380.6	487.5	578.7	599.8
75°	271.8	322.7	431.4	482.3	482.3
77.5°	210.4	266.6	368.3	387.6	398.1
80°	152.6	214.0	277.1	299.9	296.4
82.5°	101.7	163.1	198.2	198.2	192.9
85°	57.9	98.2	107.0	103.5	101.7
87.5°	24.6	36.8	33.3	26.3	22.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)