

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: P260749

Luminaire Tested: **24CZ-LD5-55-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260749  
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-L82765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 80 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5421.0 lumens  
Efficiency: N/A  
Efficacy: 134.6 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

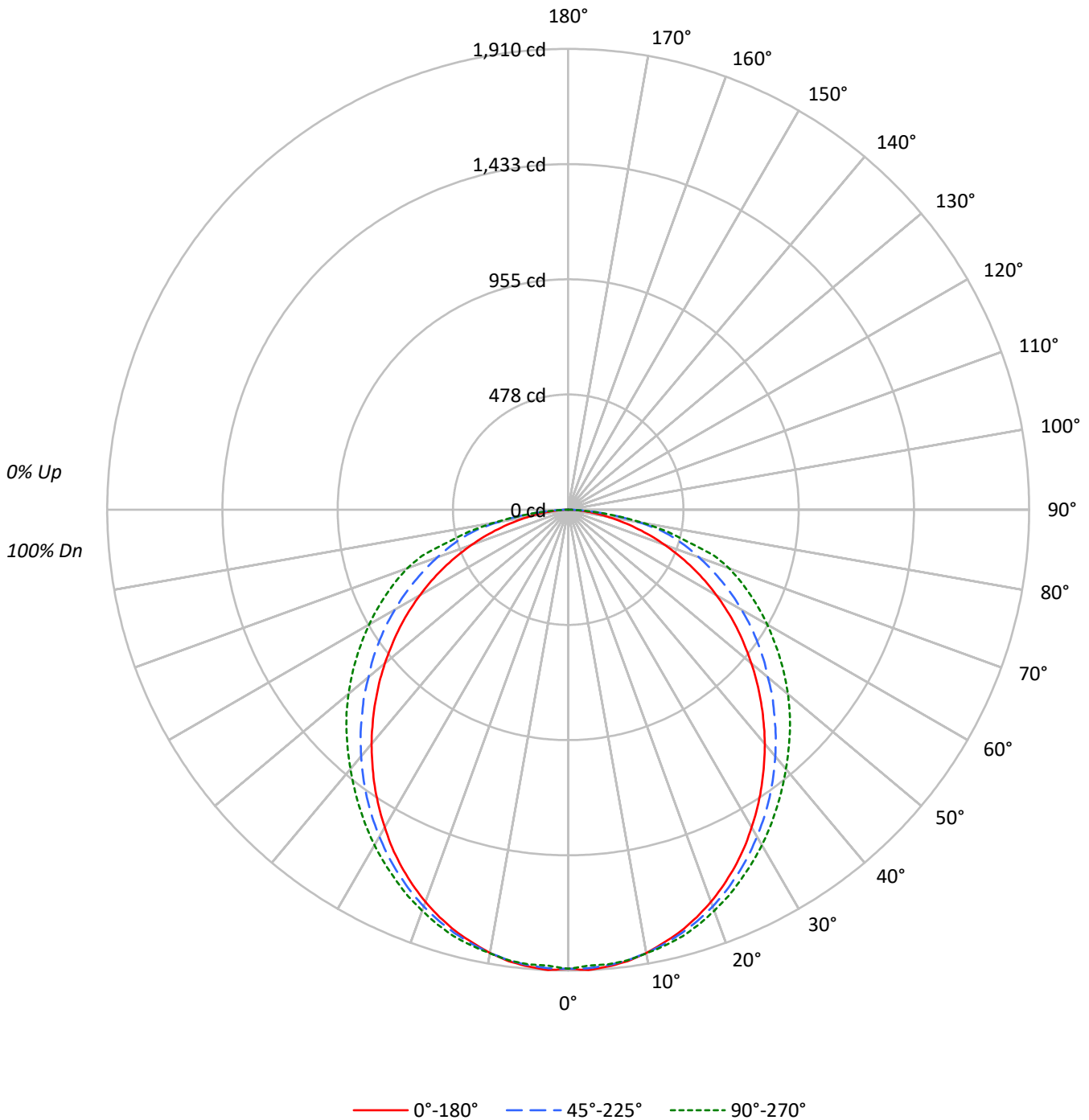
Input Watts (W): 40.269  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2560	2560	2560
5°	2567	2560	2555
10°	2549	2549	2551
15°	2518	2531	2549
20°	2477	2506	2533
25°	2425	2472	2513
30°	2362	2431	2494
35°	2296	2390	2475
40°	2227	2344	2465
45°	2151	2299	2472
50°	2075	2261	2487
55°	1998	2247	2512
60°	1908	2233	2562
65°	1808	2234	2647
70°	1672	2271	2789
75°	1496	2374	2653
80°	1251	2273	2431
85°	946	1748	1663



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	179.8	3.3
10°-20°	511.7	9.4
20°-30°	764.9	14.1
30°-40°	907.4	16.7
40°-50°	934.0	17.2
50°-60°	856.8	15.8
60°-70°	692.8	12.8
70°-80°	449.6	8.3
80°-90°	124.0	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°	1456.4	26.9
0°-40°	2363.8	43.6
0°-60°	4154.6	76.6
0°-90°	5421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5421.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1902	1902	1902	1902	1902	
5°	1901	1888	1895	1893	1891	180
15°	1808	1800	1817	1824	1830	509
25°	1633	1635	1665	1680	1693	752
35°	1398	1409	1455	1487	1507	874
45°	1130	1149	1208	1266	1299	872
55°	852	878	958	1036	1071	761
65°	568	601	702	794	832	561
75°	288	342	457	510	510	306
85°	61	104	113	110	108	75
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1902.5	1902.5	1902.5	1902.5	1902.5
2.5°	1909.9	1895.1	1902.5	1900.6	1891.4
5°	1900.6	1887.6	1895.1	1893.2	1891.4
7.5°	1887.6	1874.6	1883.9	1882.1	1883.9
10°	1865.4	1854.2	1865.4	1867.2	1867.2
12.5°	1837.5	1828.2	1843.1	1846.8	1850.5
15°	1807.8	1800.4	1817.1	1824.5	1830.1
17.5°	1770.7	1765.1	1785.6	1794.8	1802.3
20°	1729.9	1728.0	1750.3	1759.6	1768.9
22.5°	1683.5	1683.5	1709.5	1720.6	1733.6
25°	1633.4	1635.2	1664.9	1679.8	1692.8
27.5°	1579.5	1581.4	1616.7	1635.2	1650.1
30°	1520.1	1527.6	1564.7	1588.8	1605.5
32.5°	1460.7	1470.0	1510.9	1538.7	1557.3
35°	1397.6	1408.8	1455.2	1486.7	1507.1
37.5°	1332.7	1345.7	1395.8	1431.0	1455.2
40°	1267.7	1282.6	1334.5	1375.4	1403.2
42.5°	1199.0	1215.7	1273.3	1321.5	1351.2
45°	1130.4	1148.9	1208.3	1265.9	1299.3
47.5°	1061.7	1084.0	1147.1	1210.2	1245.4
50°	991.2	1013.4	1080.2	1152.6	1187.9
52.5°	920.6	946.6	1020.8	1095.1	1130.4
55°	851.9	877.9	957.7	1035.7	1071.0
57.5°	781.4	807.4	894.6	976.3	1011.6
60°	709.0	738.7	829.7	913.2	952.2
62.5°	638.5	670.0	766.6	855.7	892.8
65°	568.0	601.4	701.6	794.4	831.5
67.5°	495.6	534.6	638.5	733.2	772.1
70°	425.0	467.7	577.2	671.9	709.0
72.5°	356.4	402.8	516.0	612.5	634.8
75°	287.7	341.5	456.6	510.4	510.4
77.5°	222.7	282.1	389.8	410.2	421.3
80°	161.5	226.4	293.3	317.4	313.7
82.5°	107.7	172.6	209.7	209.7	204.2
85°	61.3	103.9	113.2	109.5	107.7
87.5°	26.0	39.0	35.3	27.8	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)