

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: P260875

Luminaire Tested: **24CZ-LD5-50-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260875  
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-LD5-50-UNV-L92765-W2A1-U-3500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4300.0 lumens  
Efficiency: N/A  
Efficacy: 120.1 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

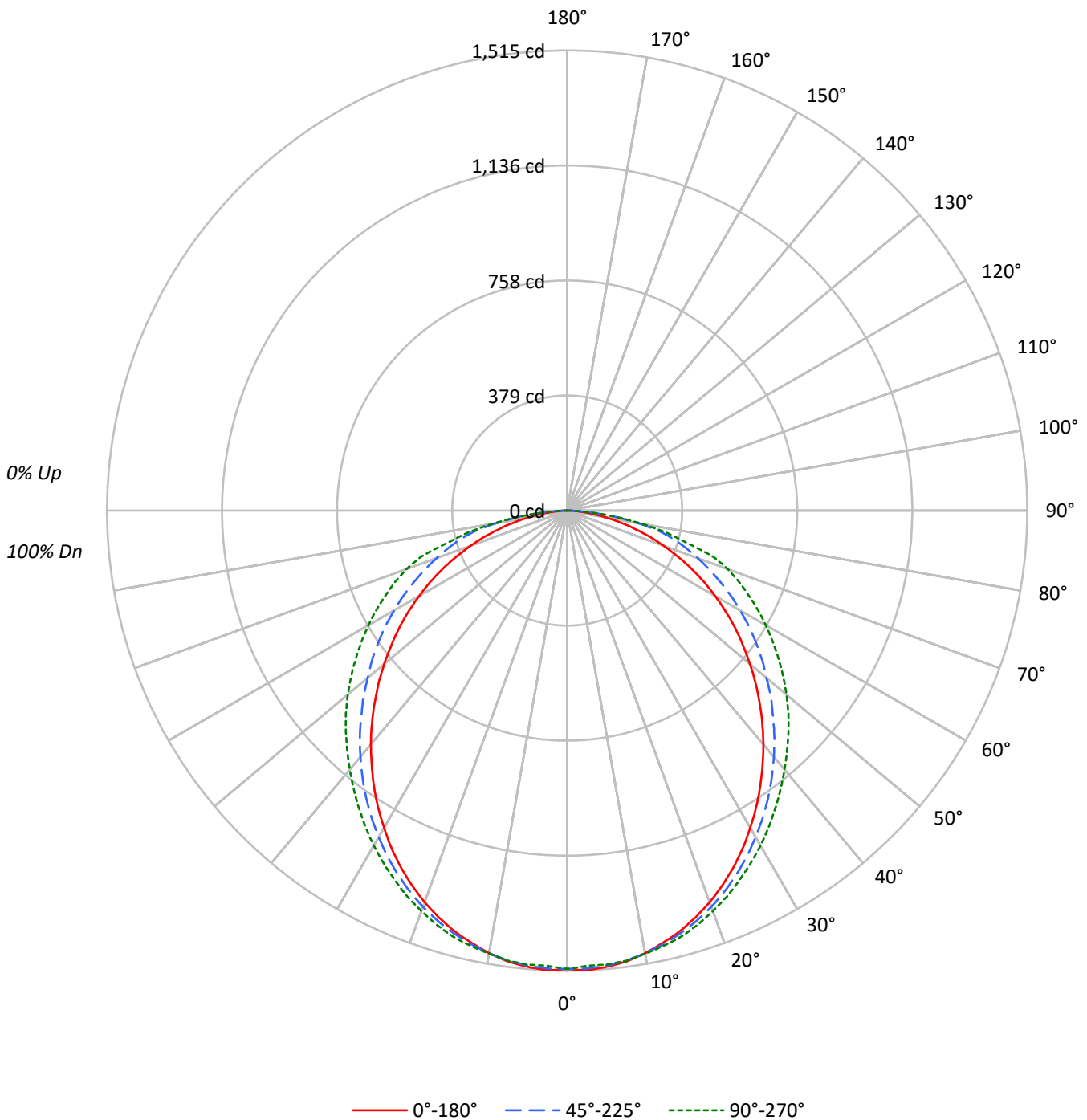
Input Watts (W): 35.805  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	2030	2030	2030
5°	2036	2030	2026
10°	2021	2021	2024
15°	1997	2008	2022
20°	1965	1988	2009
25°	1923	1961	1993
30°	1873	1928	1979
35°	1821	1896	1964
40°	1766	1859	1955
45°	1706	1824	1961
50°	1646	1794	1972
55°	1585	1782	1993
60°	1513	1771	2032
65°	1434	1772	2100
70°	1326	1801	2212
75°	1186	1883	2105
80°	993	1802	1928
85°	750	1386	1318



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	142.6	3.3
10°-20°	405.9	9.4
20°-30°	606.7	14.1
30°-40°	719.8	16.7
40°-50°	740.9	17.2
50°-60°	679.6	15.8
60°-70°	549.5	12.8
70°-80°	356.6	8.3
80°-90°	98.3	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°	1155.2	26.9
0°-40°	1875.0	43.6
0°-60°	3295.5	76.6
0°-90°	4300.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4300.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1508	1497	1503	1502	1500	143
15°	1434	1428	1441	1447	1452	404
25°	1296	1297	1321	1332	1343	596
35°	1109	1118	1154	1179	1196	693
45°	897	911	958	1004	1031	692
55°	676	696	760	822	850	604
65°	450	477	556	630	660	445
75°	228	271	362	405	405	243
85°	49	82	90	87	85	59
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1509.1	1509.1	1509.1	1509.1	1509.1
2.5°	1515.0	1503.2	1509.1	1507.6	1500.2
5°	1507.6	1497.3	1503.2	1501.7	1500.2
7.5°	1497.3	1487.0	1494.4	1492.9	1494.4
10°	1479.6	1470.8	1479.6	1481.1	1481.1
12.5°	1457.5	1450.2	1462.0	1464.9	1467.9
15°	1434.0	1428.1	1441.4	1447.2	1451.7
17.5°	1404.5	1400.1	1416.3	1423.7	1429.6
20°	1372.2	1370.7	1388.4	1395.7	1403.1
22.5°	1335.3	1335.3	1356.0	1364.8	1375.1
25°	1295.6	1297.1	1320.6	1332.4	1342.7
27.5°	1252.9	1254.4	1282.3	1297.1	1308.8
30°	1205.8	1211.7	1241.1	1260.3	1273.5
32.5°	1158.7	1166.0	1198.4	1220.5	1235.2
35°	1108.6	1117.5	1154.3	1179.3	1195.5
37.5°	1057.1	1067.4	1107.1	1135.1	1154.3
40°	1005.6	1017.3	1058.6	1091.0	1113.0
42.5°	951.1	964.3	1010.0	1048.3	1071.8
45°	896.6	911.3	958.4	1004.1	1030.6
47.5°	842.1	859.8	909.9	959.9	987.9
50°	786.2	803.9	856.9	914.3	942.3
52.5°	730.2	750.9	809.7	868.6	896.6
55°	675.8	696.4	759.7	821.5	849.5
57.5°	619.8	640.4	709.6	774.4	802.4
60°	562.4	586.0	658.1	724.4	755.3
62.5°	506.5	531.5	608.0	678.7	708.2
65°	450.5	477.0	556.5	630.1	659.6
67.5°	393.1	424.0	506.5	581.5	612.5
70°	337.1	371.0	457.9	533.0	562.4
72.5°	282.7	319.5	409.3	485.8	503.5
75°	228.2	270.9	362.2	404.9	404.9
77.5°	176.7	223.8	309.2	325.4	334.2
80°	128.1	179.6	232.6	251.8	248.8
82.5°	85.4	136.9	166.4	166.4	161.9
85°	48.6	82.4	89.8	86.9	85.4
87.5°	20.6	30.9	28.0	22.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)