

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: P261302

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261302  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-55-S-UNV-L92765-W2A1-U-2700K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4436.0 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

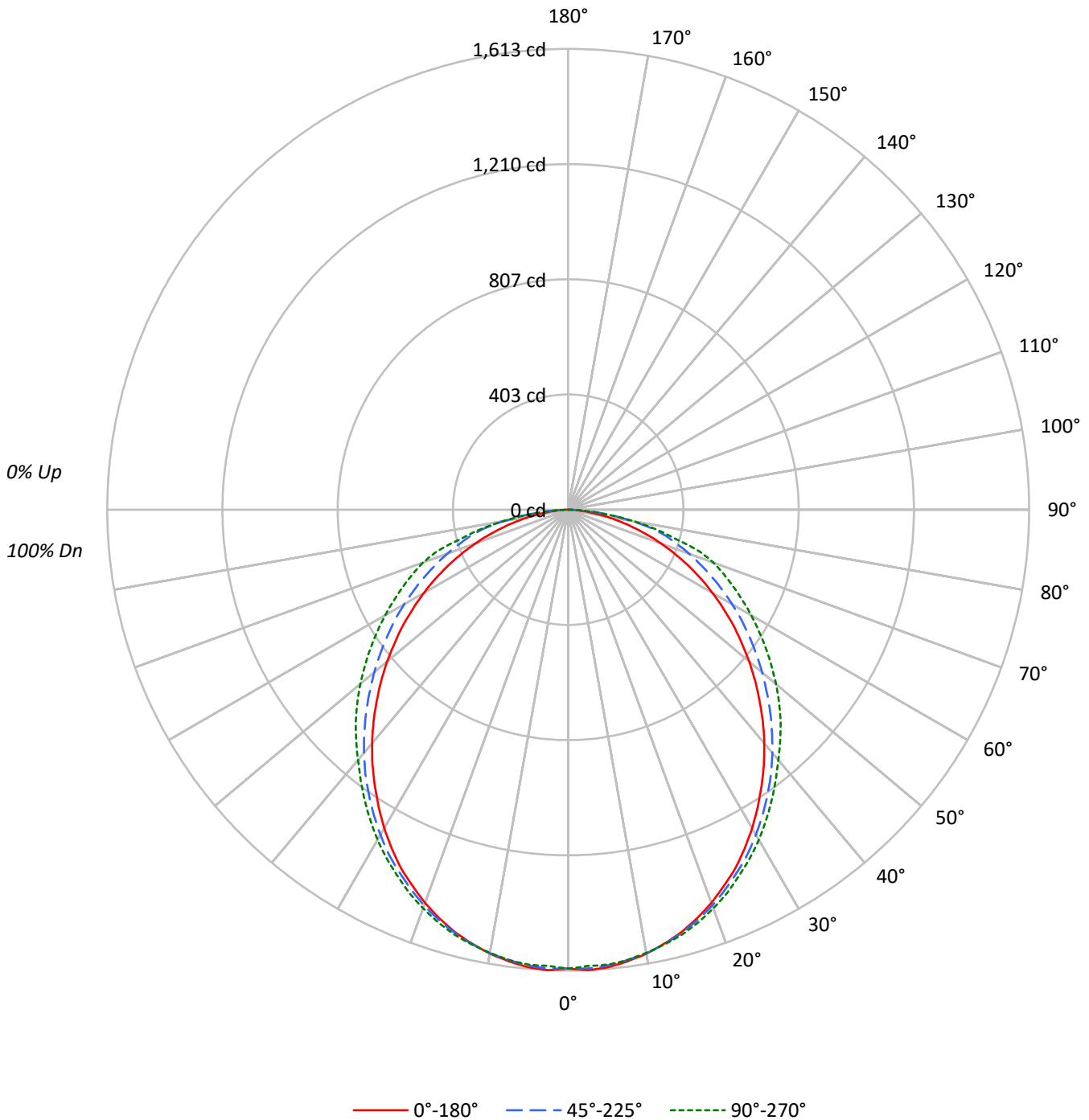
Input Watts (W): 39.99  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2161	2161	2161
5°	2171	2163	2159
10°	2156	2154	2152
15°	2132	2136	2144
20°	2096	2111	2126
25°	2055	2077	2099
30°	2000	2041	2073
35°	1937	1998	2039
40°	1874	1952	2009
45°	1803	1901	2000
50°	1730	1854	1987
55°	1655	1814	1981
60°	1569	1783	1990
65°	1476	1762	2030
70°	1359	1771	2125
75°	1205	1834	1980
80°	1007	1739	1784
85°	752	1389	1277



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	151.8	3.4
10°-20°	431.8	9.7
20°-30°	643.5	14.5
30°-40°	757.5	17.1
40°-50°	769.8	17.4
50°-60°	692.1	15.6
60°-70°	546.8	12.3
70°-80°	346.9	7.8
80°-90°	95.7	2.2
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°	1227.2	27.7
0°-40°	1984.7	44.7
0°-60°	3446.6	77.7
0°-90°	4436.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4436.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1606	1606	1606	1606	1606	
5°	1607	1594	1602	1598	1598	152
15°	1531	1523	1534	1538	1540	431
25°	1384	1383	1399	1408	1414	637
35°	1179	1187	1216	1230	1241	738
45°	948	961	999	1029	1051	731
55°	706	723	773	824	844	630
65°	464	487	554	614	638	459
75°	232	272	353	384	381	247
85°	49	84	90	83	83	60
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1605.9	1605.9	1605.9	1605.9	1605.9
2.5°	1613.3	1601.5	1607.4	1604.4	1598.5
5°	1607.4	1594.1	1601.5	1598.5	1598.5
7.5°	1594.1	1583.8	1589.7	1588.2	1589.7
10°	1577.9	1567.5	1576.4	1576.4	1574.9
12.5°	1555.7	1546.9	1557.2	1557.2	1558.7
15°	1530.6	1523.3	1533.6	1538.0	1539.5
17.5°	1499.6	1492.3	1505.5	1510.0	1514.4
20°	1464.2	1461.3	1474.5	1479.0	1484.9
22.5°	1424.4	1424.4	1437.6	1443.6	1452.4
25°	1384.5	1383.0	1399.3	1408.1	1414.0
27.5°	1337.3	1338.8	1359.4	1368.3	1375.7
30°	1287.1	1290.0	1313.7	1324.0	1334.3
32.5°	1234.0	1239.9	1266.4	1278.2	1288.6
35°	1179.3	1186.7	1216.2	1229.5	1241.3
37.5°	1124.7	1135.1	1166.1	1179.3	1192.6
40°	1067.2	1076.0	1111.4	1127.7	1143.9
42.5°	1008.1	1019.9	1055.4	1079.0	1098.2
45°	947.6	960.9	999.3	1028.8	1050.9
47.5°	887.1	904.8	941.7	981.6	1000.7
50°	826.6	844.3	885.6	929.9	949.1
52.5°	764.6	782.3	829.5	875.3	895.9
55°	705.5	723.3	773.4	823.6	844.3
57.5°	643.5	662.7	718.8	770.5	791.1
60°	583.0	602.2	662.7	717.3	739.5
62.5°	524.0	544.7	608.1	665.7	687.8
65°	463.5	487.1	553.5	614.0	637.6
67.5°	404.4	431.0	500.4	563.8	588.9
70°	345.4	376.4	450.2	515.1	540.2
72.5°	287.8	321.8	400.0	464.9	478.2
75°	231.7	271.6	352.8	383.8	380.8
77.5°	178.6	222.9	299.6	305.5	314.4
80°	129.9	178.6	224.4	236.2	230.3
82.5°	85.6	134.3	160.9	155.0	153.5
85°	48.7	84.1	90.0	82.7	82.7
87.5°	20.7	33.9	29.5	22.1	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)