

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: P261297

Luminaire Tested: **24CZ-LD5-50-S-UNV-L92765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261297
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-LD5-50-S-UNV-L92765-W2A1-U-4500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4645.0 lumens
Efficiency: N/A
Efficacy: 127.7 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

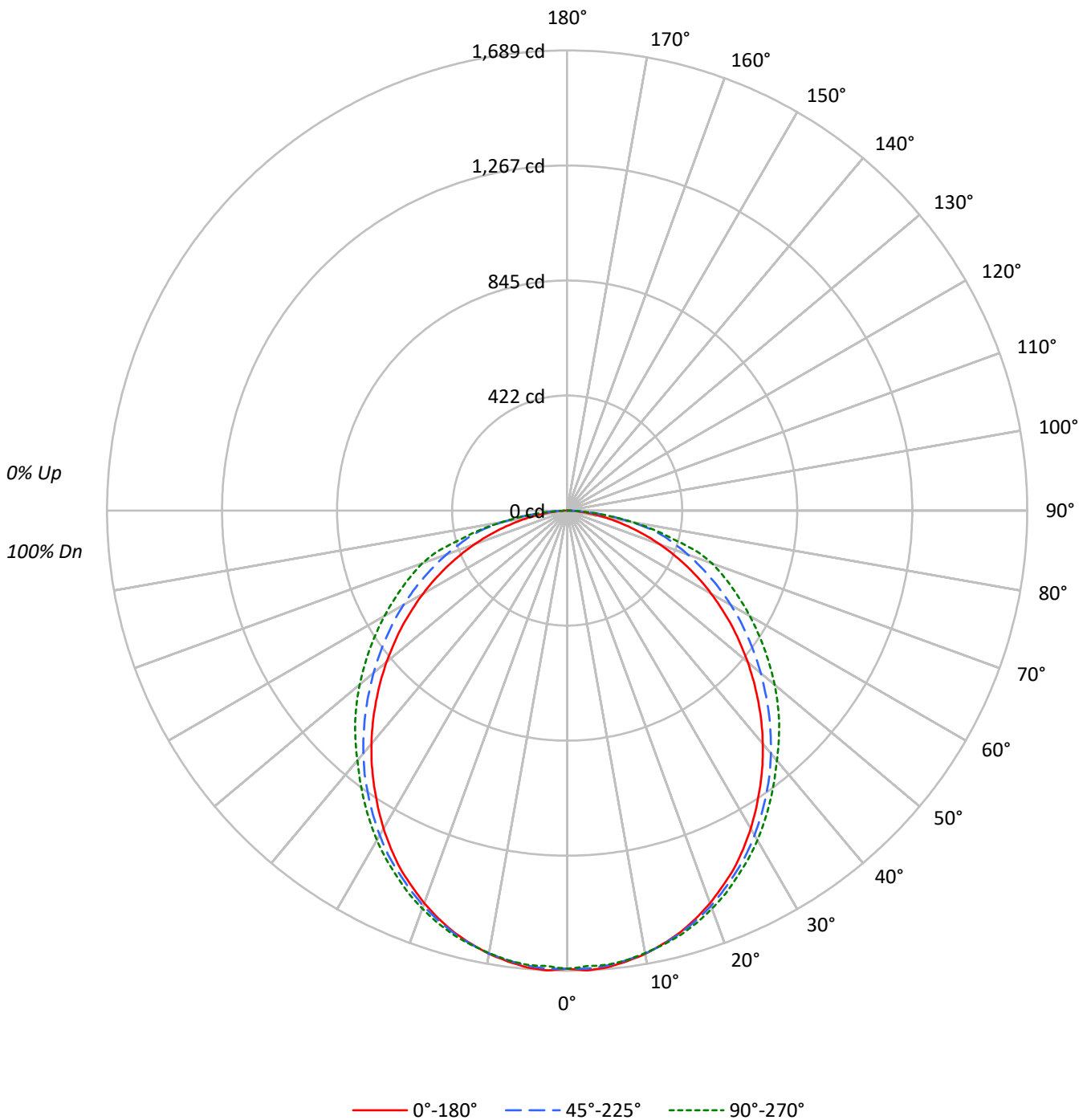
Input Watts (W): 36.363
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2263	2263	2263
5°	2273	2265	2261
10°	2257	2255	2253
15°	2233	2237	2245
20°	2195	2211	2226
25°	2152	2175	2198
30°	2094	2137	2171
35°	2028	2092	2135
40°	1963	2044	2104
45°	1888	1991	2094
50°	1812	1941	2080
55°	1733	1900	2074
60°	1643	1868	2084
65°	1545	1845	2126
70°	1423	1854	2225
75°	1262	1920	2073
80°	1054	1820	1868
85°	787	1456	1337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.0	3.4
10°-20°	452.2	9.7
20°-30°	673.8	14.5
30°-40°	793.2	17.1
40°-50°	806.1	17.4
50°-60°	724.7	15.6
60°-70°	572.5	12.3
70°-80°	363.2	7.8
80°-90°	100.2	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°	1285.0	27.7
0°-40°	2078.2	44.7
0°-60°	3609.0	77.7
0°-90°	4645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4645.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1682	1682	1682	1682	1682	
5°	1683	1669	1677	1674	1674	160
15°	1603	1595	1606	1610	1612	451
25°	1450	1448	1465	1474	1481	667
35°	1235	1243	1274	1288	1300	773
45°	992	1006	1046	1077	1100	766
55°	739	757	810	862	884	660
65°	485	510	580	643	668	481
75°	243	284	369	402	399	258
85°	51	88	94	87	87	63
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1681.6	1681.6	1681.6	1681.6	1681.6
2.5°	1689.3	1676.9	1683.1	1680.0	1673.8
5°	1683.1	1669.2	1676.9	1673.8	1673.8
7.5°	1669.2	1658.4	1664.6	1663.0	1664.6
10°	1652.2	1641.4	1650.7	1650.7	1649.1
12.5°	1629.0	1619.8	1630.6	1630.6	1632.1
15°	1602.8	1595.0	1605.8	1610.5	1612.0
17.5°	1570.3	1562.6	1576.5	1581.1	1585.8
20°	1533.2	1530.1	1544.0	1548.7	1554.8
22.5°	1491.5	1491.5	1505.4	1511.6	1520.8
25°	1449.7	1448.2	1465.2	1474.5	1480.7
27.5°	1400.3	1401.8	1423.5	1432.7	1440.5
30°	1347.7	1350.8	1375.6	1386.4	1397.2
32.5°	1292.1	1298.3	1326.1	1338.5	1349.3
35°	1234.9	1242.6	1273.5	1287.5	1299.8
37.5°	1177.7	1188.5	1221.0	1234.9	1248.8
40°	1117.4	1126.7	1163.8	1180.8	1197.8
42.5°	1055.6	1068.0	1105.1	1129.8	1149.9
45°	992.3	1006.2	1046.3	1077.3	1100.4
47.5°	928.9	947.4	986.1	1027.8	1047.9
50°	865.5	884.1	927.3	973.7	993.8
52.5°	800.6	819.1	868.6	916.5	938.2
55°	738.8	757.3	809.9	862.4	884.1
57.5°	673.9	694.0	752.7	806.8	828.4
60°	610.5	630.6	694.0	751.1	774.3
62.5°	548.7	570.3	636.8	697.1	720.2
65°	485.3	510.0	579.6	643.0	667.7
67.5°	423.5	451.3	523.9	590.4	616.7
70°	361.7	394.1	471.4	539.4	565.7
72.5°	301.4	336.9	418.8	486.9	500.8
75°	242.7	284.4	369.4	401.8	398.8
77.5°	187.0	233.4	313.7	319.9	329.2
80°	136.0	187.0	234.9	247.3	241.1
82.5°	89.6	140.6	168.5	162.3	160.7
85°	51.0	88.1	94.3	86.6	86.6
87.5°	21.6	35.5	30.9	23.2	21.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)