

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: P261300

Luminaire Tested: **24CZ-LD5-50-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261300
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-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833.0 lumens
Efficiency: N/A
Efficacy: 131.2 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

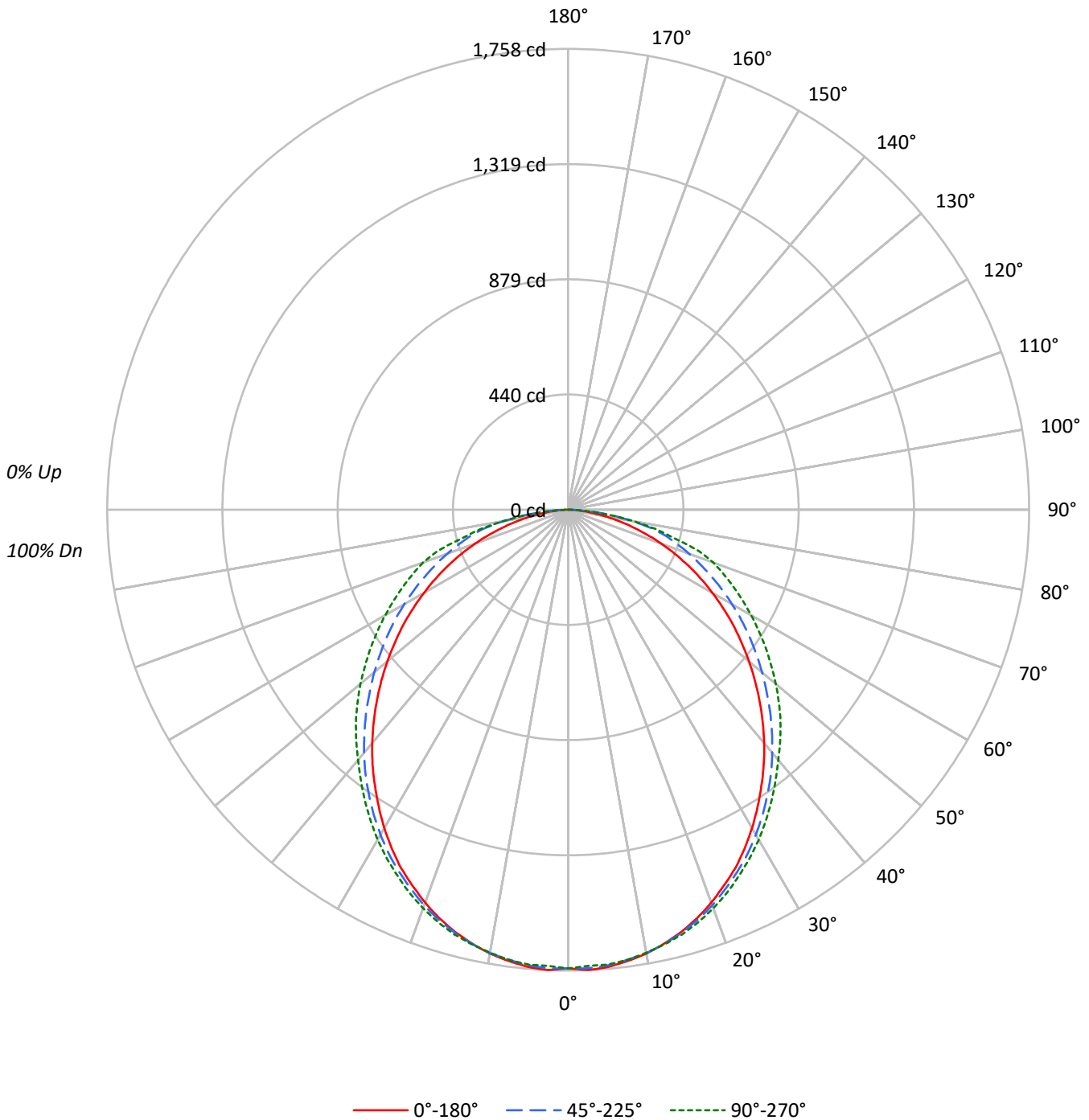
Input Watts (W): 36.828
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2354	2354	2354
5°	2365	2357	2352
10°	2349	2347	2344
15°	2323	2327	2336
20°	2284	2300	2316
25°	2239	2263	2287
30°	2179	2224	2259
35°	2110	2177	2221
40°	2042	2127	2189
45°	1964	2072	2179
50°	1885	2020	2164
55°	1803	1977	2158
60°	1709	1943	2168
65°	1607	1920	2212
70°	1480	1930	2316
75°	1313	1998	2157
80°	1096	1894	1944
85°	820	1514	1391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	3.4
10°-20°	470.5	9.7
20°-30°	701.1	14.5
30°-40°	825.3	17.1
40°-50°	838.7	17.4
50°-60°	754.0	15.6
60°-70°	595.7	12.3
70°-80°	377.9	7.8
80°-90°	104.3	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°	1337.0	27.7
0°-40°	2162.3	44.7
0°-60°	3755.0	77.7
0°-90°	4833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4833.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1751	1737	1745	1742	1742	166
15°	1668	1660	1671	1676	1677	470
25°	1508	1507	1524	1534	1541	694
35°	1285	1293	1325	1340	1352	804
45°	1032	1047	1089	1121	1145	797
55°	769	788	843	897	920	686
65°	505	531	603	669	695	500
75°	252	296	384	418	415	269
85°	53	92	98	90	90	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.6	1749.6	1749.6	1749.6	1749.6
2.5°	1757.7	1744.8	1751.2	1748.0	1741.6
5°	1751.2	1736.8	1744.8	1741.6	1741.6
7.5°	1736.8	1725.5	1731.9	1730.3	1731.9
10°	1719.1	1707.8	1717.5	1717.5	1715.9
12.5°	1695.0	1685.3	1696.6	1696.6	1698.2
15°	1667.6	1659.6	1670.8	1675.7	1677.3
17.5°	1633.9	1625.8	1640.3	1645.1	1649.9
20°	1595.3	1592.0	1606.5	1611.3	1617.8
22.5°	1551.8	1551.8	1566.3	1572.7	1582.4
25°	1508.4	1506.8	1524.5	1534.1	1540.6
27.5°	1457.0	1458.6	1481.1	1490.7	1498.8
30°	1402.3	1405.5	1431.2	1442.5	1453.7
32.5°	1344.4	1350.8	1379.8	1392.6	1403.9
35°	1284.9	1292.9	1325.1	1339.6	1352.4
37.5°	1225.4	1236.6	1270.4	1284.9	1299.4
40°	1162.7	1172.3	1210.9	1228.6	1246.3
42.5°	1098.3	1111.2	1149.8	1175.5	1196.4
45°	1032.4	1046.9	1088.7	1120.9	1145.0
47.5°	966.5	985.8	1026.0	1069.4	1090.3
50°	900.5	919.8	964.9	1013.1	1034.0
52.5°	833.0	852.3	903.8	953.6	976.1
55°	768.7	788.0	842.7	897.3	919.8
57.5°	701.1	722.0	783.2	839.4	862.0
60°	635.2	656.1	722.0	781.5	805.7
62.5°	570.9	593.4	662.5	725.3	749.4
65°	504.9	530.7	603.0	669.0	694.7
67.5°	440.6	469.6	545.2	614.3	641.6
70°	376.3	410.1	490.5	561.2	588.6
72.5°	313.6	350.6	435.8	506.6	521.0
75°	252.5	295.9	384.3	418.1	414.9
77.5°	194.6	242.8	326.4	332.9	342.5
80°	141.5	194.6	244.4	257.3	250.9
82.5°	93.3	146.3	175.3	168.9	167.2
85°	53.1	91.7	98.1	90.1	90.1
87.5°	22.5	37.0	32.2	24.1	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)