

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: P275965

Luminaire Tested: **24CZ2-50-UNV-L83050-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275965
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-50-UNV-L83050-W2A1-U-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5016.0 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

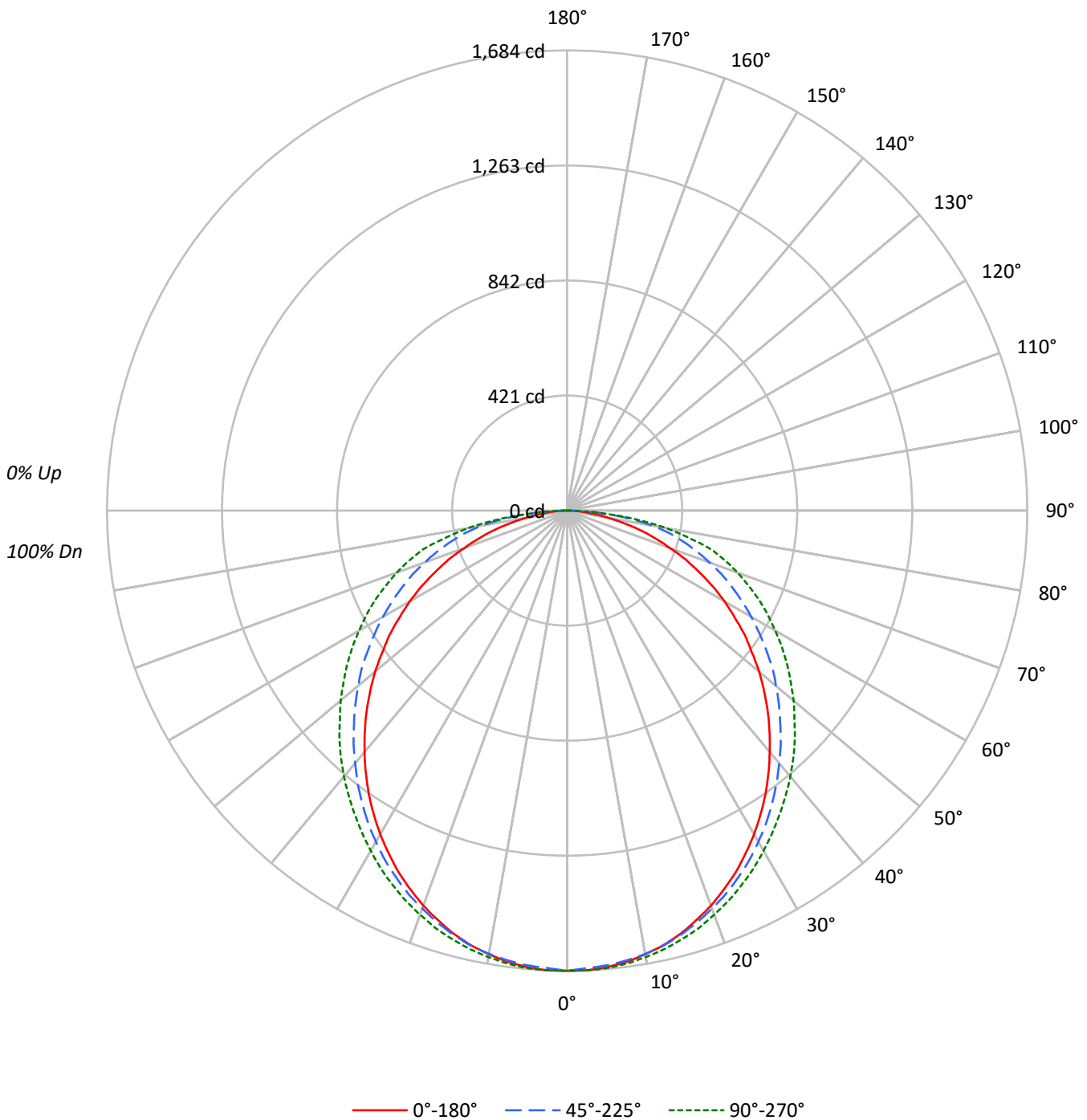
Input Watts (W): 41.664
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P275965

CATALOG NUMBER: 24CZ2-50-UNV-L83050-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P275965

CATALOG NUMBER: 24CZ2-50-UNV-L83050-W2A1-U-4500K

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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2266	2266	2266
5°	2266	2256	2270
10°	2253	2251	2267
15°	2234	2239	2262
20°	2203	2220	2253
25°	2167	2199	2244
30°	2125	2174	2234
35°	2079	2147	2227
40°	2026	2120	2232
45°	1975	2099	2242
50°	1920	2088	2264
55°	1861	2085	2305
60°	1788	2095	2365
65°	1695	2126	2468
70°	1574	2180	2608
75°	1436	2289	2829
80°	1180	2465	2827
85°	905	2274	2430



TEST NUMBER: P275965

CATALOG NUMBER: 24CZ2-50-UNV-L83050-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.3	3.2
10°-20°	454.7	9.1
20°-30°	684.3	13.6
30°-40°	820.0	16.3
40°-50°	854.6	17.0
50°-60°	795.1	15.9
60°-70°	654.8	13.1
70°-80°	446.0	8.9
80°-90°	147.2	2.9
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°	1298.3	25.9
0°-40°	2118.3	42.2
0°-60°	3767.9	75.1
0°-90°	5016.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5016.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1684	1684	1684	1684	1684	
5°	1677	1677	1671	1679	1681	159
15°	1604	1605	1607	1622	1624	452
25°	1460	1466	1482	1507	1512	672
35°	1266	1281	1307	1343	1356	791
45°	1038	1060	1103	1158	1178	801
55°	794	820	889	959	983	707
65°	532	578	668	747	775	528
75°	276	338	440	519	544	291
85°	59	114	147	157	157	73
90°	0	0	0	0	0	



TEST NUMBER: P275965

CATALOG NUMBER: 24CZ2-50-UNV-L83050-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1684.1	1684.1	1684.1	1684.1	1684.1
2.5°	1684.1	1684.1	1675.7	1684.1	1684.1
5°	1677.4	1677.4	1670.7	1679.1	1680.8
7.5°	1665.7	1667.4	1660.7	1670.7	1672.4
10°	1648.9	1650.6	1647.3	1657.3	1659.0
12.5°	1628.9	1630.5	1630.5	1642.3	1643.9
15°	1603.7	1605.4	1607.1	1622.2	1623.8
17.5°	1571.9	1577.0	1580.3	1598.7	1602.1
20°	1538.5	1543.5	1550.2	1570.3	1573.6
22.5°	1500.0	1506.7	1518.4	1540.1	1545.2
25°	1459.8	1466.5	1481.5	1506.7	1511.7
27.5°	1414.6	1424.6	1443.0	1469.8	1476.5
30°	1367.7	1377.8	1399.5	1428.0	1438.0
32.5°	1317.5	1330.9	1356.0	1387.8	1397.8
35°	1265.6	1280.7	1307.4	1342.6	1356.0
37.5°	1210.3	1227.1	1258.9	1297.4	1314.1
40°	1153.4	1173.5	1207.0	1252.2	1270.6
42.5°	1096.5	1114.9	1156.8	1205.3	1225.4
45°	1037.9	1059.7	1103.2	1158.4	1178.5
47.5°	977.7	999.4	1051.3	1109.9	1128.3
50°	917.4	939.1	997.7	1059.7	1081.4
52.5°	852.1	880.6	947.5	1009.5	1031.2
55°	793.5	820.3	888.9	959.2	982.7
57.5°	726.5	758.3	833.7	907.3	932.5
60°	664.6	698.1	778.4	853.8	878.9
62.5°	601.0	637.8	723.2	800.2	828.7
65°	532.4	577.6	667.9	746.6	775.1
67.5°	470.4	517.3	612.7	693.1	718.2
70°	400.1	457.0	554.1	634.5	662.9
72.5°	339.8	396.8	498.9	577.6	606.0
75°	276.2	338.2	440.3	519.0	544.1
77.5°	212.6	281.2	383.4	443.6	452.0
80°	152.3	224.3	318.1	353.2	364.9
82.5°	107.1	172.4	234.4	257.8	264.5
85°	58.6	113.8	147.3	157.4	157.4
87.5°	25.1	48.5	58.6	60.3	61.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)