

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: P276308

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276308
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-L92765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4374.3 lumens
Efficiency: N/A
Efficacy: 107.6 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

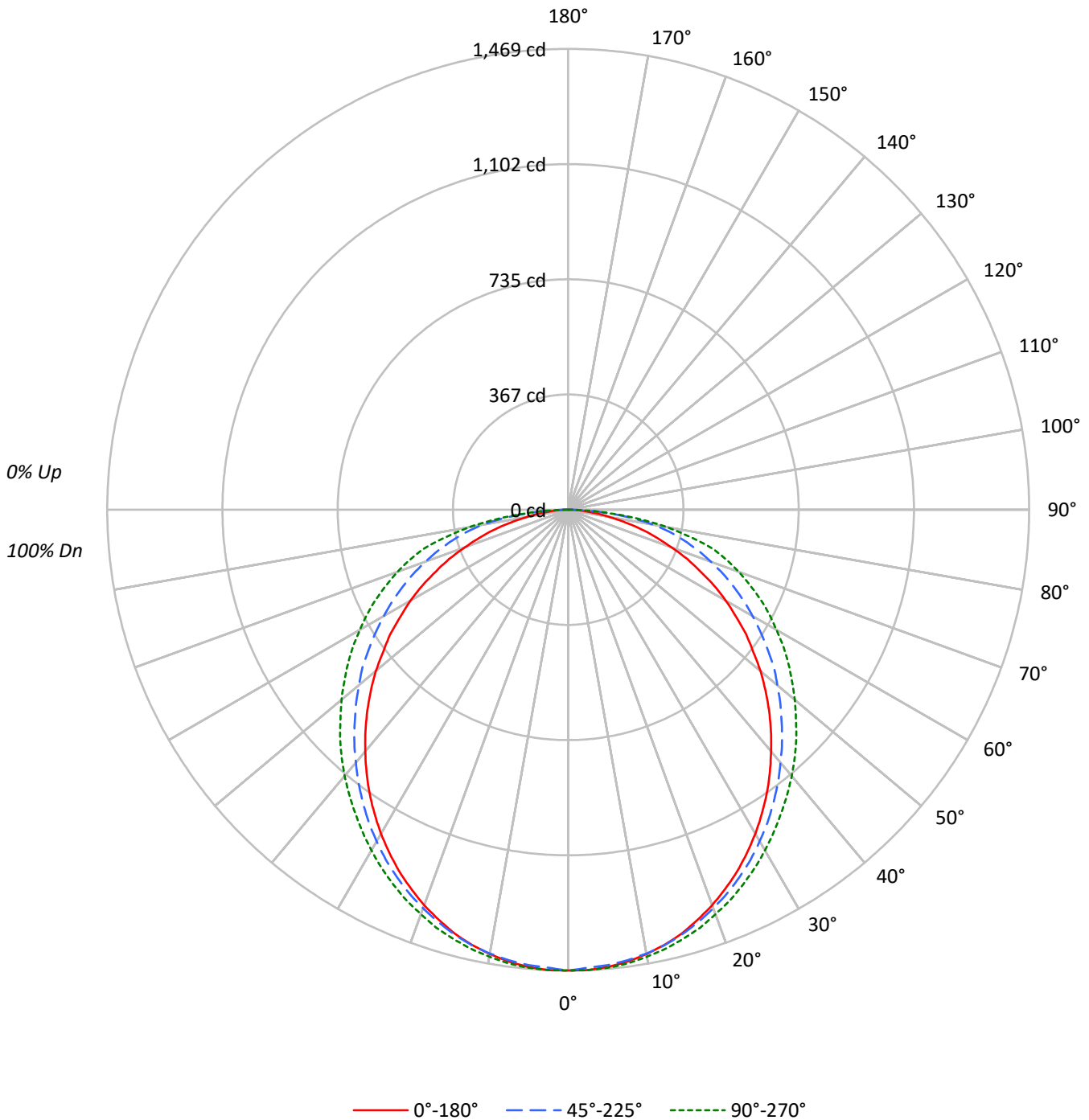
Input Watts (W): 40.641
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276308

CATALOG NUMBER: 24CZ2-50-UNV-L92765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P276308

CATALOG NUMBER: 24CZ2-50-UNV-L92765-W2A1-U-5000K

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°	1976	1976	1976
5°	1976	1968	1980
10°	1965	1963	1977
15°	1948	1952	1973
20°	1921	1936	1965
25°	1890	1918	1957
30°	1853	1896	1948
35°	1813	1873	1942
40°	1767	1849	1946
45°	1722	1831	1956
50°	1675	1821	1974
55°	1623	1818	2010
60°	1560	1827	2062
65°	1478	1855	2152
70°	1373	1901	2274
75°	1252	1996	2467
80°	1030	2149	2466
85°	789	1984	2118



TEST NUMBER: P276308

CATALOG NUMBER: 24CZ2-50-UNV-L92765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.9	3.2
10°-20°	396.5	9.1
20°-30°	596.7	13.6
30°-40°	715.1	16.3
40°-50°	745.2	17.0
50°-60°	693.4	15.9
60°-70°	571.1	13.1
70°-80°	388.9	8.9
80°-90°	128.4	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°	1132.2	25.9
0°-40°	1847.3	42.2
0°-60°	3285.9	75.1
0°-90°	4374.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4374.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1469	1469	1469	1469	1469	
5°	1463	1463	1457	1464	1466	139
15°	1399	1400	1402	1415	1416	394
25°	1273	1279	1292	1314	1318	586
35°	1104	1117	1140	1171	1182	690
45°	905	924	962	1010	1028	698
55°	692	715	775	836	857	617
65°	464	504	582	651	676	461
75°	241	295	384	453	474	254
85°	51	99	128	137	137	63
90°	0	0	0	0	0	



TEST NUMBER: P276308

CATALOG NUMBER: 24CZ2-50-UNV-L92765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1468.7	1468.7	1468.7	1468.7	1468.7
2.5°	1468.7	1468.7	1461.4	1468.7	1468.7
5°	1462.8	1462.8	1457.0	1464.3	1465.7
7.5°	1452.6	1454.1	1448.2	1457.0	1458.4
10°	1438.0	1439.5	1436.5	1445.3	1446.8
12.5°	1420.5	1421.9	1421.9	1432.2	1433.6
15°	1398.6	1400.0	1401.5	1414.6	1416.1
17.5°	1370.8	1375.2	1378.1	1394.2	1397.1
20°	1341.6	1346.0	1351.9	1369.4	1372.3
22.5°	1308.1	1313.9	1324.1	1343.1	1347.5
25°	1273.0	1278.9	1292.0	1313.9	1318.3
27.5°	1233.6	1242.4	1258.4	1281.8	1287.6
30°	1192.7	1201.5	1220.5	1245.3	1254.1
32.5°	1148.9	1160.6	1182.5	1210.3	1219.0
35°	1103.7	1116.8	1140.2	1170.8	1182.5
37.5°	1055.5	1070.1	1097.8	1131.4	1146.0
40°	1005.9	1023.4	1052.6	1092.0	1108.1
42.5°	956.2	972.3	1008.8	1051.1	1068.6
45°	905.1	924.1	962.1	1010.2	1027.8
47.5°	852.6	871.6	916.8	967.9	984.0
50°	800.0	819.0	870.1	924.1	943.1
52.5°	743.1	767.9	826.3	880.3	899.3
55°	692.0	715.3	775.2	836.5	857.0
57.5°	633.6	661.3	727.0	791.3	813.2
60°	579.6	608.8	678.9	744.5	766.4
62.5°	524.1	556.2	630.7	697.8	722.6
65°	464.2	503.7	582.5	651.1	675.9
67.5°	410.2	451.1	534.3	604.4	626.3
70°	348.9	398.6	483.2	553.3	578.1
72.5°	296.4	346.0	435.0	503.7	528.5
75°	240.9	294.9	384.0	452.6	474.5
77.5°	185.4	245.3	334.3	386.9	394.2
80°	132.9	195.6	277.4	308.0	318.3
82.5°	93.4	150.4	204.4	224.8	230.7
85°	51.1	99.3	128.5	137.2	137.2
87.5°	21.9	42.3	51.1	52.6	54.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)