

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: P276566

Luminaire Tested: **24CZ2-35-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276566
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3640.0 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

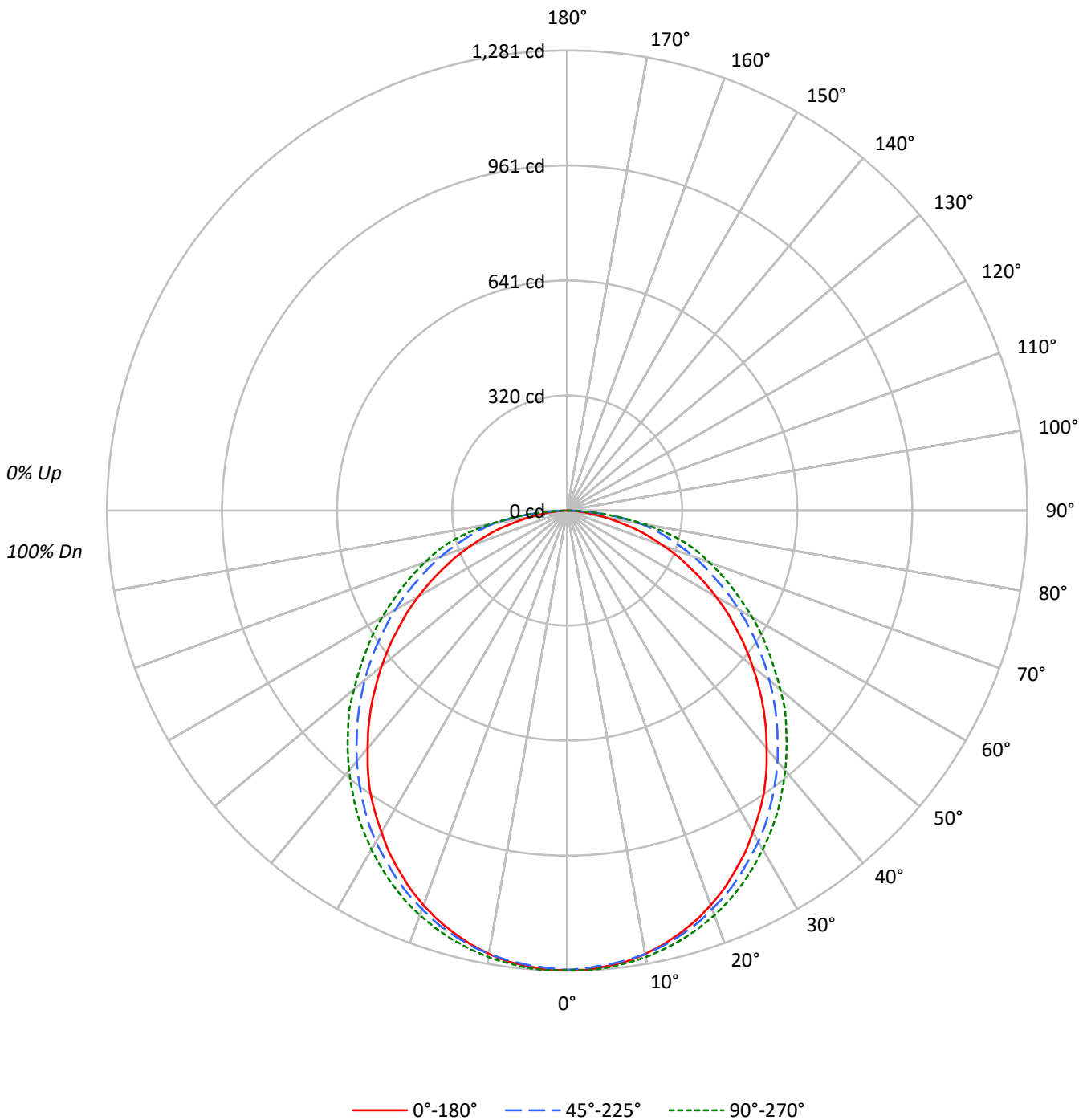
Input Watts (W): 26.691
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276566

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P276566

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1721	1721	1721
5°	1719	1715	1726
10°	1712	1712	1725
15°	1696	1704	1722
20°	1674	1690	1717
25°	1643	1674	1706
30°	1606	1654	1692
35°	1571	1628	1679
40°	1517	1600	1659
45°	1467	1569	1641
50°	1411	1539	1622
55°	1348	1511	1606
60°	1285	1487	1602
65°	1204	1461	1612
70°	1114	1469	1656
75°	998	1497	1749
80°	807	1585	1711
85°	607	1392	1357



TEST NUMBER: P276566

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.1	3.3
10°-20°	345.9	9.5
20°-30°	520.0	14.3
30°-40°	619.4	17.0
40°-50°	633.9	17.4
50°-60°	570.7	15.7
60°-70°	448.2	12.3
70°-80°	290.9	8.0
80°-90°	90.0	2.5
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°	987.0	27.1
0°-40°	1606.3	44.1
0°-60°	2811.0	77.2
0°-90°	3640.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3640.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1273	1275	1270	1276	1278	121
15°	1218	1221	1223	1234	1236	343
25°	1106	1116	1127	1146	1149	510
35°	956	968	991	1015	1022	597
45°	771	790	824	856	862	595
55°	575	600	644	678	684	515
65°	378	407	459	497	506	376
75°	192	229	288	327	336	203
85°	39	73	90	88	88	47
90°	0	0	0	0	0	



TEST NUMBER: P276566

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.8	1278.8	1278.8	1278.8	1278.8
2.5°	1279.9	1279.9	1274.1	1279.9	1281.1
5°	1273.0	1275.3	1269.5	1276.4	1277.6
7.5°	1266.0	1266.0	1262.6	1269.5	1270.7
10°	1253.3	1254.5	1253.3	1261.4	1262.6
12.5°	1237.1	1239.4	1240.6	1248.7	1249.9
15°	1217.5	1220.9	1223.3	1233.7	1236.0
17.5°	1195.5	1199.0	1204.8	1216.3	1218.6
20°	1168.9	1173.5	1180.5	1195.5	1199.0
22.5°	1140.0	1144.6	1156.2	1170.1	1175.9
25°	1106.5	1115.7	1127.3	1145.8	1149.3
27.5°	1073.0	1081.0	1096.1	1115.7	1120.4
30°	1033.6	1046.4	1064.9	1084.5	1089.1
32.5°	995.5	1008.2	1030.2	1051.0	1056.8
35°	956.2	967.7	990.9	1015.1	1022.1
37.5°	911.1	926.1	951.6	975.8	982.8
40°	863.7	882.2	911.1	936.5	944.6
42.5°	818.6	838.2	867.2	894.9	904.1
45°	771.2	789.7	824.4	855.6	862.5
47.5°	722.6	743.4	780.4	811.7	823.2
50°	674.1	696.0	735.3	767.7	774.7
52.5°	625.5	648.6	690.3	724.9	728.4
55°	574.6	600.1	644.0	677.5	684.5
57.5°	528.4	550.4	597.8	632.4	640.5
60°	477.5	501.8	552.7	585.0	595.4
62.5°	429.0	454.4	507.6	539.9	549.2
65°	378.1	407.0	459.0	497.2	506.4
67.5°	334.1	361.9	417.4	454.4	463.6
70°	283.3	314.5	373.5	411.6	420.9
72.5°	239.3	271.7	330.7	367.7	381.5
75°	191.9	228.9	287.9	327.2	336.5
77.5°	145.7	188.5	248.6	278.6	278.6
80°	104.1	149.1	204.6	218.5	220.8
82.5°	68.2	112.2	151.5	150.3	150.3
85°	39.3	72.8	90.2	87.9	87.9
87.5°	15.0	30.1	32.4	32.4	31.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)