

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: P276565

Luminaire Tested: **24CZ2-35-S-UNV-L82765-W2A1-U-4500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276565
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-4500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3591.3 lumens
Efficiency: N/A
Efficacy: 135.5 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

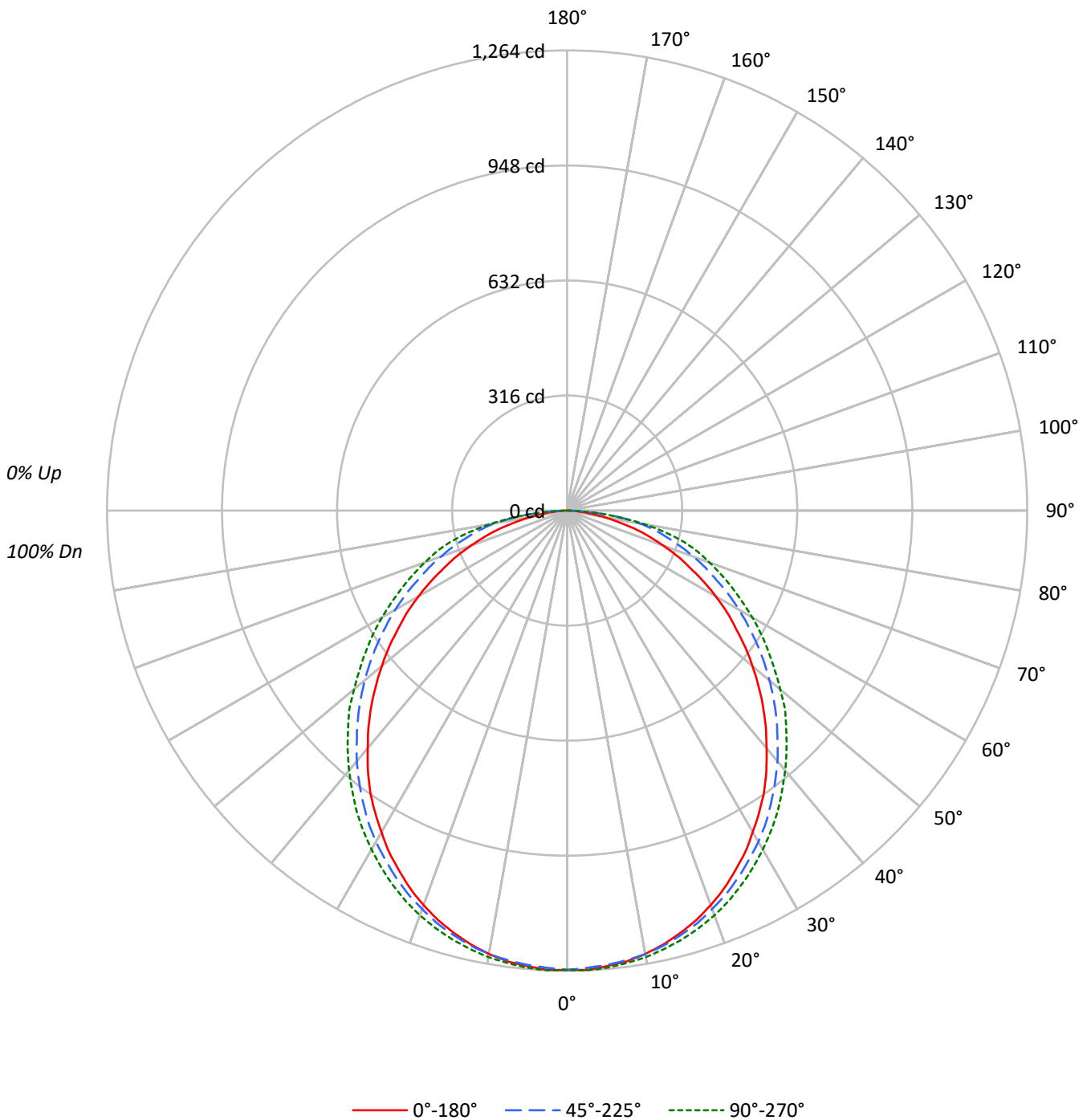
Input Watts (W): 26.505
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276565

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-4500K

Luminous Intensity Polar Plot





TEST NUMBER: P276565

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1697	1697	1697
5°	1696	1692	1702
10°	1689	1689	1702
15°	1673	1681	1699
20°	1651	1668	1694
25°	1621	1651	1683
30°	1584	1632	1670
35°	1550	1606	1656
40°	1497	1579	1637
45°	1448	1548	1619
50°	1392	1519	1600
55°	1330	1491	1584
60°	1268	1467	1581
65°	1188	1442	1591
70°	1100	1450	1633
75°	985	1476	1726
80°	796	1564	1688
85°	599	1374	1338



TEST NUMBER: P276565

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-4500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.4	3.3
10°-20°	341.3	9.5
20°-30°	513.0	14.3
30°-40°	611.1	17.0
40°-50°	625.4	17.4
50°-60°	563.1	15.7
60°-70°	442.2	12.3
70°-80°	287.0	8.0
80°-90°	88.8	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°	973.8	27.1
0°-40°	1584.9	44.1
0°-60°	2773.3	77.2
0°-90°	3591.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1256	1258	1252	1259	1260	119
15°	1201	1205	1207	1217	1219	339
25°	1092	1101	1112	1130	1134	503
35°	943	955	978	1002	1008	589
45°	761	779	813	844	851	587
55°	567	592	635	668	675	508
65°	373	402	453	490	500	371
75°	189	226	284	323	332	200
85°	39	72	89	87	87	47
90°	0	0	0	0	0	



TEST NUMBER: P276565

CATALOG NUMBER: 24CZ2-35-S-UNV-L82765-W2A1-U-4500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1261.6	1261.6	1261.6	1261.6	1261.6
2.5°	1262.8	1262.8	1257.1	1262.8	1263.9
5°	1255.9	1258.2	1252.5	1259.4	1260.5
7.5°	1249.1	1249.1	1245.7	1252.5	1253.7
10°	1236.6	1237.7	1236.6	1244.5	1245.7
12.5°	1220.6	1222.9	1224.0	1232.0	1233.1
15°	1201.2	1204.6	1206.9	1217.2	1219.4
17.5°	1179.5	1182.9	1188.6	1200.0	1202.3
20°	1153.3	1157.8	1164.7	1179.5	1182.9
22.5°	1124.8	1129.3	1140.7	1154.4	1160.1
25°	1091.7	1100.8	1112.2	1130.5	1133.9
27.5°	1058.6	1066.6	1081.4	1100.8	1105.4
30°	1019.8	1032.4	1050.6	1070.0	1074.6
32.5°	982.2	994.7	1016.4	1036.9	1042.6
35°	943.4	954.8	977.6	1001.6	1008.4
37.5°	898.9	913.7	938.8	962.8	969.6
40°	852.1	870.4	898.9	924.0	932.0
42.5°	807.6	827.0	855.5	882.9	892.1
45°	760.9	779.1	813.3	844.1	851.0
47.5°	713.0	733.5	770.0	800.8	812.2
50°	665.0	686.7	725.5	757.4	764.3
52.5°	617.1	639.9	681.0	715.2	718.7
55°	566.9	592.0	635.4	668.5	675.3
57.5°	521.3	543.0	589.8	624.0	632.0
60°	471.1	495.1	545.3	577.2	587.5
62.5°	423.2	448.3	500.8	532.7	541.8
65°	373.0	401.5	452.9	490.5	499.6
67.5°	329.7	357.0	411.8	448.3	457.4
70°	279.5	310.3	368.5	406.1	415.2
72.5°	236.1	268.1	326.2	362.8	376.4
75°	189.4	225.9	284.0	322.8	332.0
77.5°	143.7	185.9	245.3	274.9	274.9
80°	102.7	147.2	201.9	215.6	217.9
82.5°	67.3	110.7	149.4	148.3	148.3
85°	38.8	71.9	89.0	86.7	86.7
87.5°	14.8	29.7	31.9	31.9	30.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)