

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: P276150

Luminaire Tested: **24CZ2-40-UNV-L82765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276150
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: 24CZ2-40-UNV-L82765-W2A1-U-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3513.4 lumens
Efficiency: N/A
Efficacy: 115.5 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

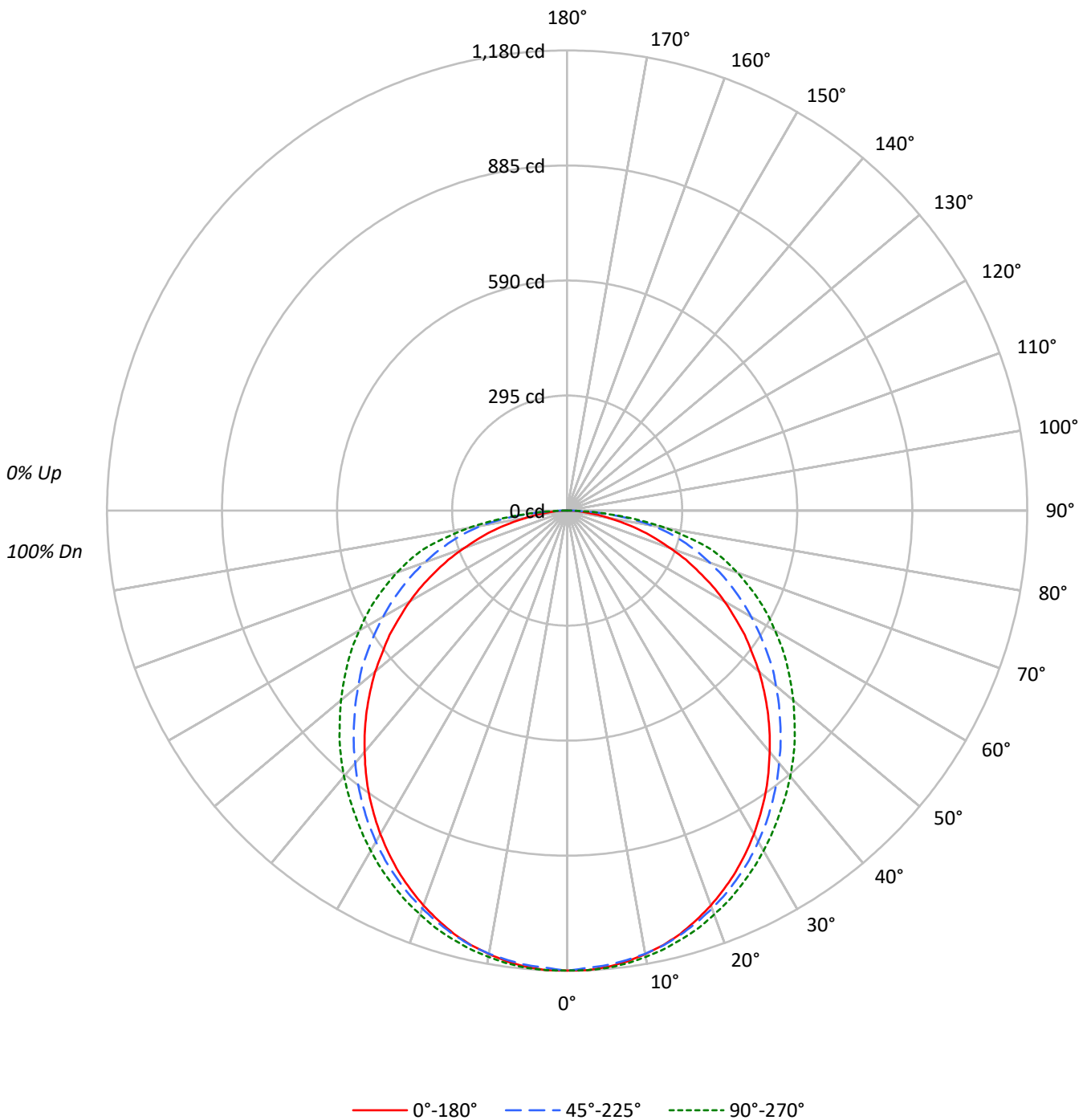
Input Watts (W): 30.411
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276150

CATALOG NUMBER: 24CZ2-40-UNV-L82765-W2A1-U-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P276150

CATALOG NUMBER: 24CZ2-40-UNV-L82765-W2A1-U-2700K

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°	1587	1587	1587
5°	1587	1581	1590
10°	1578	1576	1588
15°	1565	1568	1584
20°	1543	1555	1578
25°	1518	1541	1572
30°	1488	1523	1565
35°	1456	1504	1560
40°	1419	1485	1563
45°	1383	1470	1571
50°	1345	1463	1586
55°	1304	1460	1615
60°	1253	1467	1657
65°	1187	1490	1728
70°	1102	1527	1827
75°	1006	1603	1981
80°	827	1726	1980
85°	633	1593	1701



TEST NUMBER: P276150

CATALOG NUMBER: 24CZ2-40-UNV-L82765-W2A1-U-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.6	3.2
10°-20°	318.5	9.1
20°-30°	479.3	13.6
30°-40°	574.4	16.3
40°-50°	598.6	17.0
50°-60°	556.9	15.9
60°-70°	458.7	13.1
70°-80°	312.4	8.9
80°-90°	103.1	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°	909.4	25.9
0°-40°	1483.8	42.2
0°-60°	2639.2	75.1
0°-90°	3513.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1180	1180	1180	1180	1180	
5°	1175	1175	1170	1176	1177	112
15°	1123	1124	1126	1136	1137	316
25°	1022	1027	1038	1055	1059	471
35°	886	897	916	940	950	554
45°	727	742	773	811	826	561
55°	556	575	623	672	688	495
65°	373	404	468	523	543	370
75°	194	237	308	364	381	204
85°	41	80	103	110	110	51
90°	0	0	0	0	0	



TEST NUMBER: P276150

CATALOG NUMBER: 24CZ2-40-UNV-L82765-W2A1-U-2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1179.6	1179.6	1179.6	1179.6	1179.6
2.5°	1179.6	1179.6	1173.8	1179.6	1179.6
5°	1174.9	1174.9	1170.2	1176.1	1177.3
7.5°	1166.7	1167.9	1163.2	1170.2	1171.4
10°	1155.0	1156.2	1153.8	1160.9	1162.0
12.5°	1140.9	1142.1	1142.1	1150.3	1151.5
15°	1123.3	1124.5	1125.7	1136.2	1137.4
17.5°	1101.1	1104.6	1106.9	1119.8	1122.2
20°	1077.6	1081.1	1085.8	1099.9	1102.2
22.5°	1050.6	1055.3	1063.5	1078.8	1082.3
25°	1022.5	1027.2	1037.7	1055.3	1058.8
27.5°	990.8	997.9	1010.8	1029.5	1034.2
30°	958.0	965.0	980.3	1000.2	1007.3
32.5°	922.8	932.2	949.8	972.1	979.1
35°	886.5	897.0	915.8	940.4	949.8
37.5°	847.8	859.5	881.8	908.8	920.5
40°	807.9	822.0	845.4	877.1	890.0
42.5°	768.0	780.9	810.3	844.3	858.3
45°	727.0	742.3	772.7	811.4	825.5
47.5°	684.8	700.0	736.4	777.4	790.3
50°	642.6	657.8	698.9	742.3	757.5
52.5°	596.8	616.8	663.7	707.1	722.3
55°	555.8	574.6	622.6	671.9	688.3
57.5°	508.9	531.2	584.0	635.5	653.1
60°	465.5	489.0	545.3	598.0	615.6
62.5°	421.0	446.8	506.6	560.5	580.4
65°	372.9	404.5	467.9	523.0	542.9
67.5°	329.5	362.3	429.2	485.5	503.0
70°	280.2	320.1	388.1	444.4	464.3
72.5°	238.0	277.9	349.4	404.5	424.5
75°	193.5	236.9	308.4	363.5	381.1
77.5°	148.9	197.0	268.5	310.7	316.6
80°	106.7	157.1	222.8	247.4	255.6
82.5°	75.0	120.8	164.2	180.6	185.3
85°	41.0	79.7	103.2	110.2	110.2
87.5°	17.6	34.0	41.0	42.2	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)