

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: P263428

Luminaire Tested: **24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P263428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25695)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SQP LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4106.0 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.31 / 1.42
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

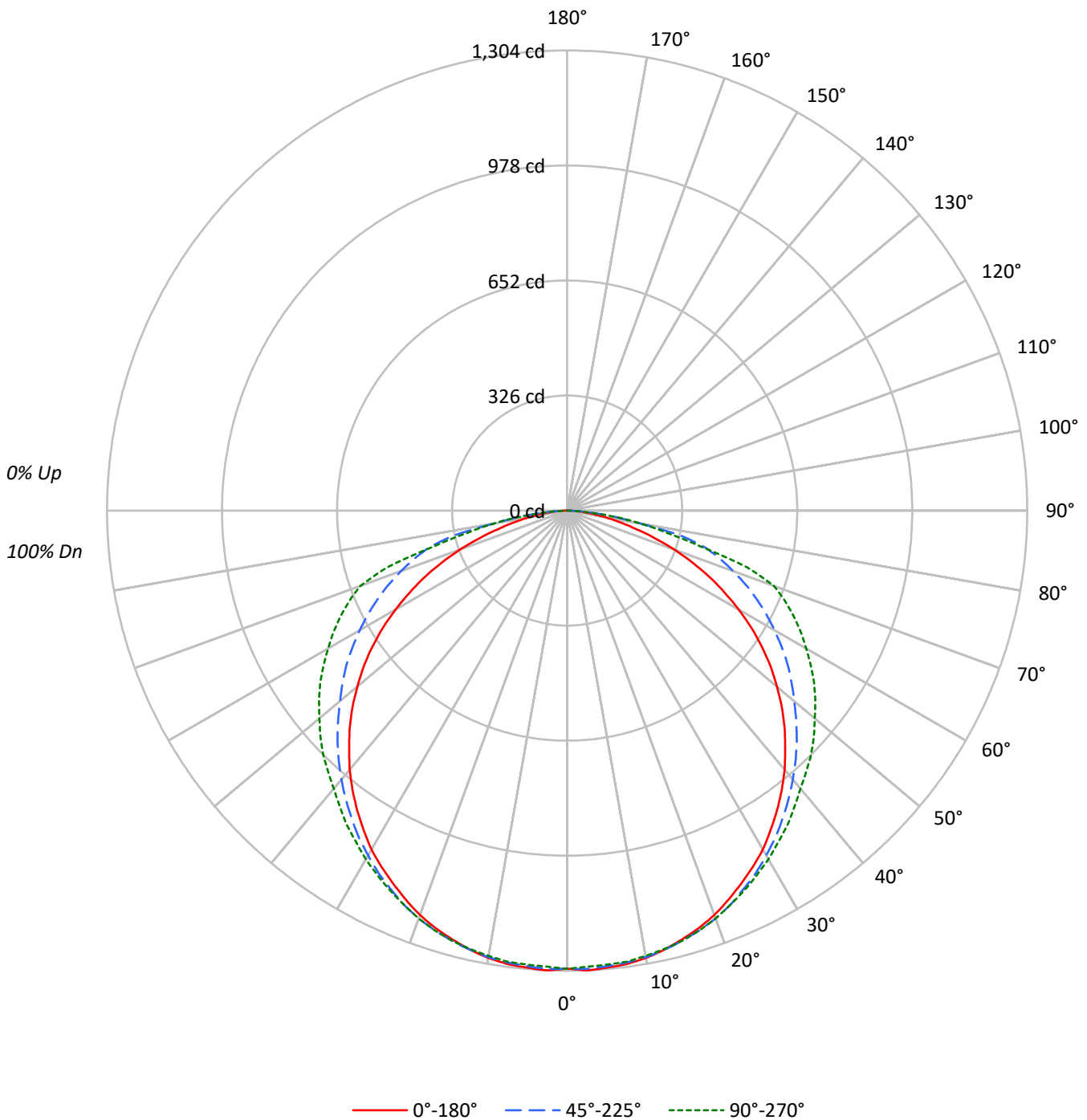
Input Watts (W): 51.243
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P263428

CATALOG NUMBER: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P263428

CATALOG NUMBER: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K

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	101	97	93	96	93	90	92	90	87	89	87	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	60	70	64	59	67	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	51	45	72	60	51	44	57	50	44	55	49	43	54	48	43	41
6	68	55	45	39	66	54	45	38	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1746	1746	1746
5°	1756	1750	1744
10°	1759	1756	1750
15°	1752	1758	1758
20°	1746	1761	1761
25°	1732	1757	1763
30°	1723	1753	1773
35°	1703	1749	1787
40°	1684	1747	1807
45°	1659	1752	1860
50°	1625	1758	1918
55°	1582	1791	2005
60°	1512	1826	2106
65°	1418	1884	2255
70°	1268	1969	2453
75°	1048	2106	2028
80°	855	1627	1643
85°	687	1081	1014



TEST NUMBER: P263428

CATALOG NUMBER: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.0
10°-20°	355.7	8.7
20°-30°	543.7	13.2
30°-40°	664.9	16.2
40°-50°	711.5	17.3
50°-60°	681.3	16.6
60°-70°	576.3	14.0
70°-80°	365.3	8.9
80°-90°	84.0	2.0
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°	1022.7	24.9
0°-40°	1687.6	41.1
0°-60°	3080.3	75.0
0°-90°	4106.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4106.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1300	1294	1296	1294	1292	124
15°	1258	1256	1262	1262	1262	355
25°	1166	1166	1184	1188	1188	538
35°	1037	1044	1065	1080	1088	649
45°	872	886	920	959	978	672
55°	674	696	764	827	855	602
65°	445	488	592	672	708	439
75°	202	284	405	403	390	219
85°	44	68	70	64	66	53
90°	0	0	0	0	0	



TEST NUMBER: P263428

CATALOG NUMBER: 24CZ-LD5-65-SQP-UNV-L92765-W2A1-U-6500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.0	1298.0	1298.0	1298.0	1298.0
2.5°	1304.3	1298.0	1300.1	1298.0	1293.7
5°	1300.1	1293.7	1295.9	1293.7	1291.6
7.5°	1295.9	1289.5	1291.6	1289.5	1289.5
10°	1287.4	1281.0	1285.3	1283.1	1281.0
12.5°	1274.7	1270.4	1274.7	1272.5	1272.5
15°	1257.7	1255.6	1261.9	1261.9	1261.9
17.5°	1240.7	1238.6	1247.1	1247.1	1247.1
20°	1219.5	1217.4	1230.1	1230.1	1230.1
22.5°	1194.1	1191.9	1208.9	1208.9	1208.9
25°	1166.5	1166.5	1183.5	1187.7	1187.7
27.5°	1138.9	1138.9	1158.0	1164.4	1164.4
30°	1109.2	1109.2	1128.3	1136.8	1141.0
32.5°	1073.2	1077.4	1098.6	1109.2	1113.5
35°	1037.1	1043.5	1064.7	1079.5	1088.0
37.5°	998.9	1005.3	1030.8	1047.7	1058.3
40°	958.6	967.1	994.7	1015.9	1028.6
42.5°	914.1	926.8	958.6	986.2	1003.2
45°	871.7	886.5	920.5	958.6	977.7
47.5°	825.0	842.0	880.2	928.9	948.0
50°	776.2	793.2	839.9	895.0	916.2
52.5°	727.5	746.6	801.7	861.1	886.5
55°	674.4	695.7	763.5	827.1	854.7
57.5°	619.3	644.7	721.1	789.0	818.7
60°	562.0	593.8	678.7	750.8	782.6
62.5°	502.7	540.8	636.3	712.6	746.6
65°	445.4	487.8	591.7	672.3	708.4
67.5°	383.9	436.9	547.2	634.1	668.1
70°	322.4	383.9	500.5	589.6	623.5
72.5°	260.9	335.1	453.9	534.5	534.5
75°	201.5	284.2	405.1	403.0	390.2
77.5°	152.7	237.5	333.0	284.2	286.3
80°	110.3	190.9	210.0	210.0	212.1
82.5°	74.2	146.3	135.7	133.6	137.9
85°	44.5	67.9	70.0	63.6	65.7
87.5°	21.2	23.3	19.1	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)