

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: P261282

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261282
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3917.0 lumens
Efficiency: N/A
Efficacy: 134.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

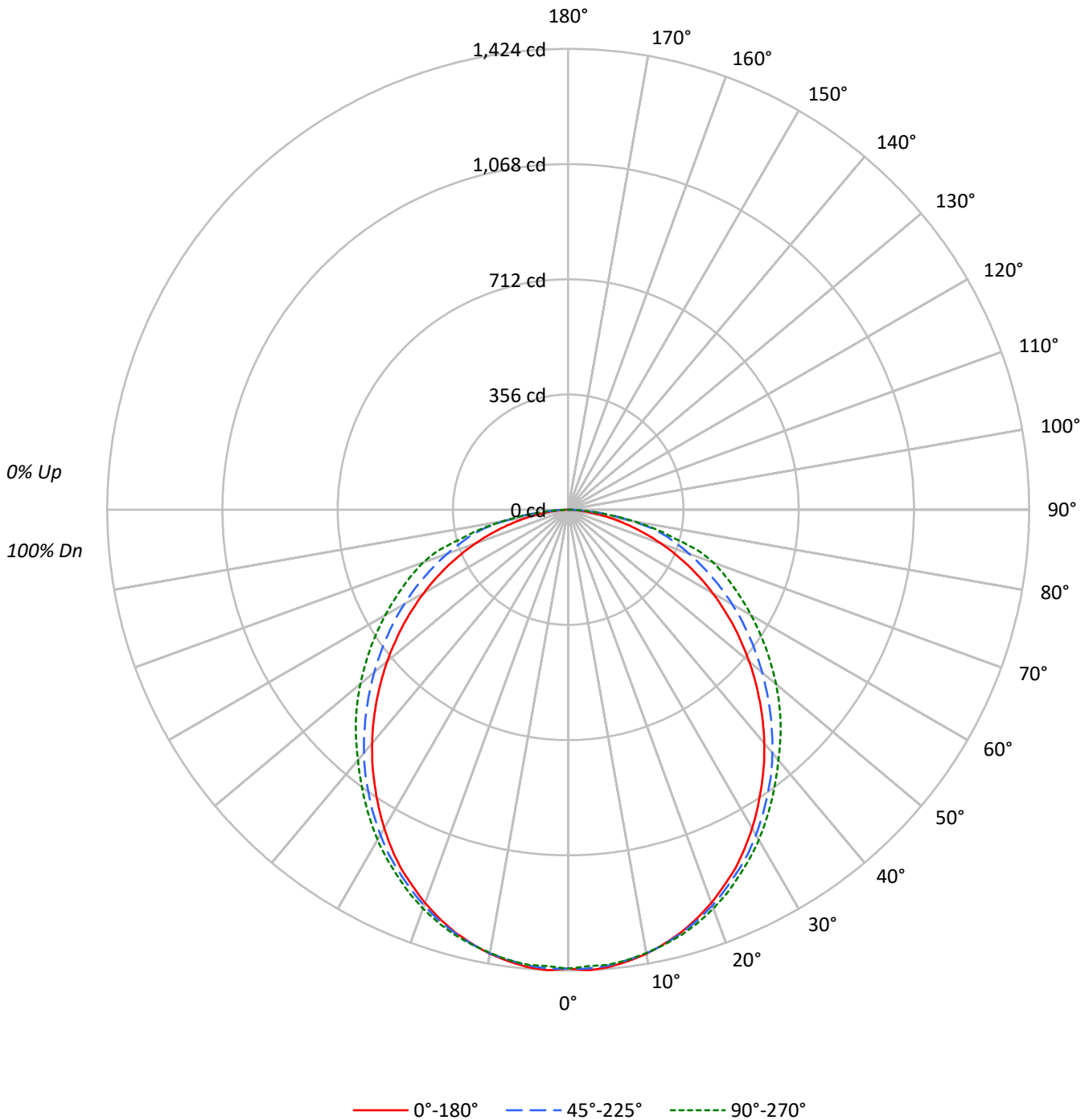
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261282

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P261282

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K

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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1908	1908	1908
5°	1917	1910	1906
10°	1904	1902	1900
15°	1883	1886	1894
20°	1851	1864	1877
25°	1815	1834	1854
30°	1766	1802	1830
35°	1711	1764	1800
40°	1655	1724	1774
45°	1592	1679	1766
50°	1528	1637	1754
55°	1461	1602	1749
60°	1385	1575	1757
65°	1303	1556	1792
70°	1200	1564	1876
75°	1064	1619	1748
80°	889	1535	1575
85°	664	1227	1127



TEST NUMBER: P261282

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	3.4
10°-20°	381.3	9.7
20°-30°	568.2	14.5
30°-40°	668.9	17.1
40°-50°	679.7	17.4
50°-60°	611.1	15.6
60°-70°	482.8	12.3
70°-80°	306.3	7.8
80°-90°	84.5	2.2
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°	1083.6	27.7
0°-40°	1752.5	44.7
0°-60°	3043.4	77.7
0°-90°	3917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1419	1408	1414	1412	1412	135
15°	1352	1345	1354	1358	1359	381
25°	1222	1221	1236	1243	1249	562
35°	1041	1048	1074	1086	1096	652
45°	837	848	882	908	928	646
55°	623	639	683	727	746	556
65°	409	430	489	542	563	405
75°	205	240	312	339	336	218
85°	43	74	80	73	73	53
90°	0	0	0	0	0	



TEST NUMBER: P261282

CATALOG NUMBER: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.0	1418.0	1418.0	1418.0	1418.0
2.5°	1424.5	1414.1	1419.3	1416.7	1411.5
5°	1419.3	1407.6	1414.1	1411.5	1411.5
7.5°	1407.6	1398.5	1403.7	1402.4	1403.7
10°	1393.3	1384.1	1392.0	1392.0	1390.7
12.5°	1373.7	1365.9	1375.0	1375.0	1376.3
15°	1351.6	1345.0	1354.2	1358.1	1359.4
17.5°	1324.2	1317.7	1329.4	1333.3	1337.2
20°	1292.9	1290.3	1302.0	1305.9	1311.2
22.5°	1257.7	1257.7	1269.4	1274.7	1282.5
25°	1222.5	1221.2	1235.6	1243.4	1248.6
27.5°	1180.8	1182.1	1200.4	1208.2	1214.7
30°	1136.5	1139.1	1160.0	1169.1	1178.2
32.5°	1089.6	1094.8	1118.3	1128.7	1137.8
35°	1041.4	1047.9	1073.9	1085.7	1096.1
37.5°	993.1	1002.3	1029.6	1041.4	1053.1
40°	942.3	950.1	981.4	995.7	1010.1
42.5°	890.2	900.6	931.9	952.7	969.7
45°	836.7	848.5	882.4	908.4	928.0
47.5°	783.3	798.9	831.5	866.7	883.7
50°	729.9	745.5	782.0	821.1	838.0
52.5°	675.1	690.8	732.5	772.9	791.1
55°	623.0	638.6	682.9	727.3	745.5
57.5°	568.3	585.2	634.7	680.3	698.6
60°	514.8	531.8	585.2	633.4	653.0
62.5°	462.7	480.9	537.0	587.8	607.4
65°	409.2	430.1	488.7	542.2	563.0
67.5°	357.1	380.6	441.8	497.9	520.0
70°	305.0	332.3	397.5	454.9	477.0
72.5°	254.1	284.1	353.2	410.5	422.3
75°	204.6	239.8	311.5	338.9	336.3
77.5°	157.7	196.8	264.6	269.8	277.6
80°	114.7	157.7	198.1	208.5	203.3
82.5°	75.6	118.6	142.1	136.8	135.5
85°	43.0	74.3	79.5	73.0	73.0
87.5°	18.2	30.0	26.1	19.5	18.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)