

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: P260835

Luminaire Tested: **24CZ-LD5-50SE-UNV-L82765-W2A1-U-5700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50SE-UNV-L82765-W2A1-U-5700K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5215.0 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

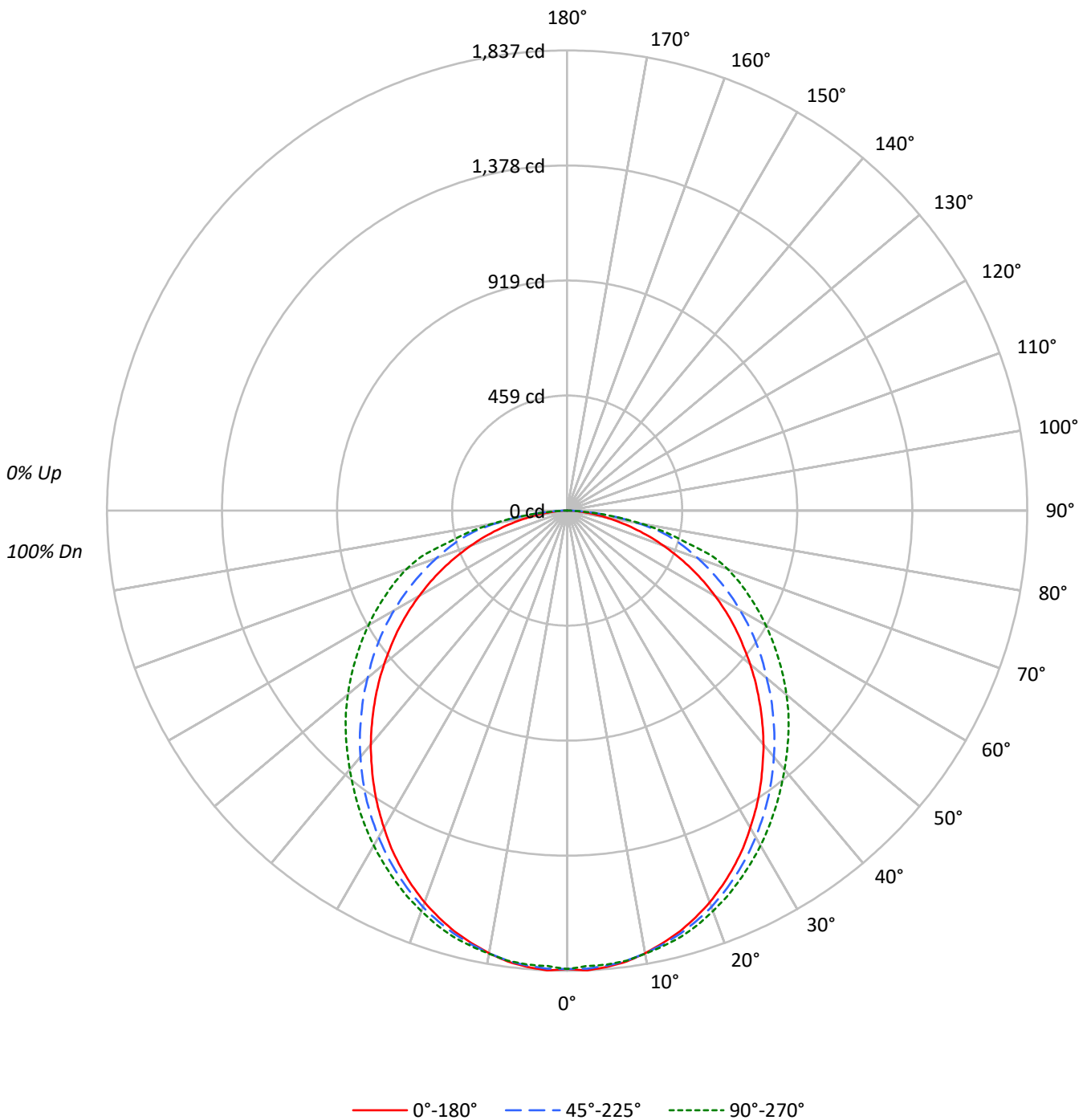
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260835

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L82765-W2A1-U-5700K

Luminous Intensity Polar Plot





TEST NUMBER: P260835

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L82765-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	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	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2463	2463	2463
5°	2469	2462	2457
10°	2452	2452	2454
15°	2422	2435	2452
20°	2383	2411	2436
25°	2333	2378	2417
30°	2272	2339	2400
35°	2208	2299	2382
40°	2142	2255	2371
45°	2069	2212	2378
50°	1996	2175	2392
55°	1923	2161	2417
60°	1836	2148	2465
65°	1740	2149	2547
70°	1609	2185	2683
75°	1439	2283	2552
80°	1203	2186	2338
85°	909	1681	1599



TEST NUMBER: P260835

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L82765-W2A1-U-5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.9	3.3
10°-20°	492.2	9.4
20°-30°	735.9	14.1
30°-40°	873.0	16.7
40°-50°	898.5	17.2
50°-60°	824.3	15.8
60°-70°	666.4	12.8
70°-80°	432.5	8.3
80°-90°	119.3	2.3
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°	1401.0	26.9
0°-40°	2274.0	43.6
0°-60°	3996.8	76.6
0°-90°	5215.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5215.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1830	1830	1830	1830	1830	
5°	1828	1816	1823	1821	1820	173
15°	1739	1732	1748	1755	1761	490
25°	1571	1573	1602	1616	1628	723
35°	1344	1355	1400	1430	1450	841
45°	1087	1105	1162	1218	1250	839
55°	820	845	921	996	1030	732
65°	546	578	675	764	800	540
75°	277	328	439	491	491	294
85°	59	100	109	105	104	72
90°	0	0	0	0	0	



TEST NUMBER: P260835

CATALOG NUMBER: 24CZ-LD5-50SE-UNV-L82765-W2A1-U-5700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1830.2	1830.2	1830.2	1830.2	1830.2
2.5°	1837.3	1823.1	1830.2	1828.4	1819.5
5°	1828.4	1815.9	1823.1	1821.3	1819.5
7.5°	1815.9	1803.4	1812.3	1810.6	1812.3
10°	1794.5	1783.8	1794.5	1796.3	1796.3
12.5°	1767.7	1758.8	1773.1	1776.6	1780.2
15°	1739.1	1732.0	1748.1	1755.2	1760.6
17.5°	1703.4	1698.1	1717.7	1726.6	1733.8
20°	1664.1	1662.4	1683.8	1692.7	1701.6
22.5°	1619.5	1619.5	1644.5	1655.2	1667.7
25°	1571.3	1573.1	1601.6	1615.9	1628.4
27.5°	1519.5	1521.3	1555.2	1573.1	1587.4
30°	1462.4	1469.5	1505.2	1528.4	1544.5
32.5°	1405.2	1414.2	1453.4	1480.2	1498.1
35°	1344.5	1355.2	1399.9	1430.2	1449.9
37.5°	1282.0	1294.5	1342.7	1376.7	1399.9
40°	1219.5	1233.8	1283.8	1323.1	1349.9
42.5°	1153.5	1169.5	1224.9	1271.3	1299.9
45°	1087.4	1105.3	1162.4	1217.7	1249.9
47.5°	1021.3	1042.8	1103.5	1164.2	1198.1
50°	953.5	974.9	1039.2	1108.8	1142.8
52.5°	885.6	910.6	982.1	1053.5	1087.4
55°	819.6	844.6	921.3	996.3	1030.3
57.5°	751.7	776.7	860.6	939.2	973.1
60°	682.1	710.7	798.1	878.5	916.0
62.5°	614.2	644.6	737.4	823.1	858.9
65°	546.4	578.5	674.9	764.2	799.9
67.5°	476.7	514.2	614.2	705.3	742.8
70°	408.9	450.0	555.3	646.4	682.1
72.5°	342.8	387.5	496.4	589.2	610.7
75°	276.8	328.5	439.2	491.0	491.0
77.5°	214.3	271.4	375.0	394.6	405.3
80°	155.3	217.8	282.1	305.3	301.8
82.5°	103.6	166.1	201.8	201.8	196.4
85°	58.9	100.0	108.9	105.3	103.6
87.5°	25.0	37.5	33.9	26.8	23.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)