

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: P261254

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261254
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-LD5-50SE-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5305.0 lumens
Efficiency: N/A
Efficacy: 129.9 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

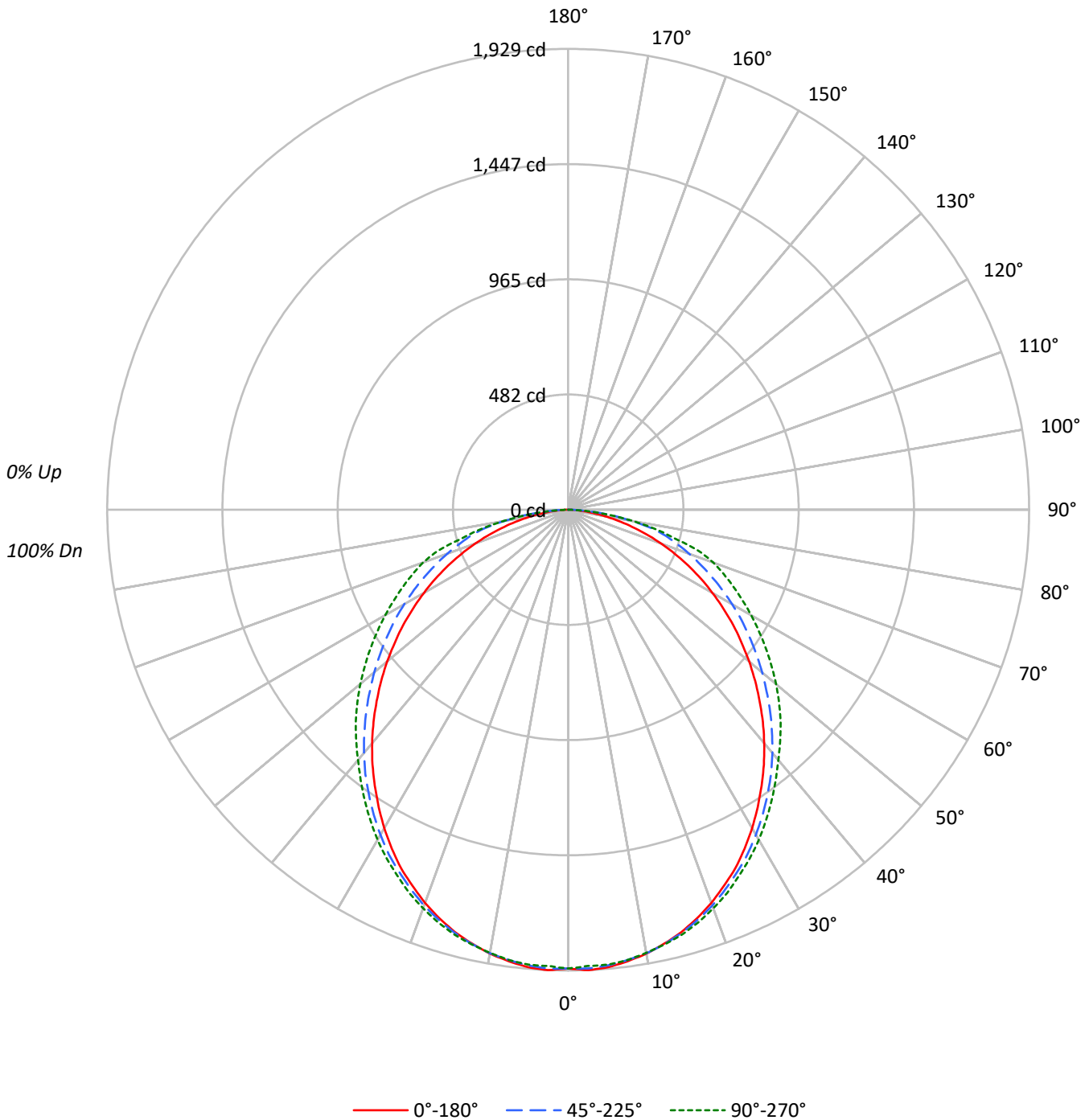
Input Watts (W): 40.827
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261254

CATALOG NUMBER: 24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P261254

CATALOG NUMBER: 24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-5500K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2584	2584	2584
5°	2596	2587	2582
10°	2578	2576	2573
15°	2550	2555	2565
20°	2507	2525	2543
25°	2458	2484	2510
30°	2391	2441	2479
35°	2317	2389	2438
40°	2242	2335	2403
45°	2156	2274	2391
50°	2069	2217	2376
55°	1979	2170	2369
60°	1876	2133	2380
65°	1765	2107	2428
70°	1625	2118	2542
75°	1441	2193	2367
80°	1203	2079	2134
85°	900	1663	1525



TEST NUMBER: P261254

CATALOG NUMBER: 24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.6	3.4
10°-20°	516.4	9.7
20°-30°	769.6	14.5
30°-40°	905.9	17.1
40°-50°	920.6	17.4
50°-60°	827.7	15.6
60°-70°	653.9	12.3
70°-80°	414.8	7.8
80°-90°	114.5	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°	1467.6	27.7
0°-40°	2373.5	44.7
0°-60°	4121.8	77.7
0°-90°	5305.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5305.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1920	1920	1920	1920	1920	
5°	1922	1906	1915	1912	1912	182
15°	1830	1822	1834	1839	1841	516
25°	1656	1654	1673	1684	1691	761
35°	1410	1419	1454	1470	1484	882
45°	1133	1149	1195	1230	1257	874
55°	844	865	925	985	1010	754
65°	554	582	662	734	763	549
75°	277	325	422	459	455	295
85°	58	101	108	99	99	72
90°	0	0	0	0	0	



TEST NUMBER: P261254

CATALOG NUMBER: 24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1920.5	1920.5	1920.5	1920.5	1920.5
2.5°	1929.3	1915.2	1922.3	1918.7	1911.7
5°	1922.3	1906.4	1915.2	1911.7	1911.7
7.5°	1906.4	1894.0	1901.1	1899.3	1901.1
10°	1887.0	1874.6	1885.2	1885.2	1883.4
12.5°	1860.5	1849.9	1862.3	1862.3	1864.0
15°	1830.5	1821.7	1834.0	1839.3	1841.1
17.5°	1793.4	1784.6	1800.5	1805.8	1811.1
20°	1751.1	1747.5	1763.4	1768.7	1775.8
22.5°	1703.4	1703.4	1719.3	1726.3	1736.9
25°	1655.7	1654.0	1673.4	1684.0	1691.0
27.5°	1599.2	1601.0	1625.7	1636.3	1645.1
30°	1539.2	1542.8	1571.0	1583.4	1595.7
32.5°	1475.7	1482.7	1514.5	1528.6	1541.0
35°	1410.4	1419.2	1454.5	1470.4	1484.5
37.5°	1345.1	1357.4	1394.5	1410.4	1426.3
40°	1276.2	1286.8	1329.2	1348.6	1368.0
42.5°	1205.6	1219.7	1262.1	1290.3	1313.3
45°	1133.2	1149.1	1195.0	1230.3	1256.8
47.5°	1060.9	1082.1	1126.2	1173.8	1196.8
50°	988.5	1009.7	1059.1	1112.1	1135.0
52.5°	914.4	935.5	992.0	1046.7	1071.5
55°	843.8	864.9	925.0	985.0	1009.7
57.5°	769.6	792.6	859.6	921.4	946.1
60°	697.2	720.2	792.6	857.9	884.4
62.5°	626.6	651.3	727.3	796.1	822.6
65°	554.3	582.5	661.9	734.3	762.6
67.5°	483.7	515.4	598.4	674.3	704.3
70°	413.1	450.1	538.4	616.0	646.1
72.5°	344.2	384.8	478.4	556.0	571.9
75°	277.1	324.8	421.9	458.9	455.4
77.5°	213.6	266.5	358.3	365.4	376.0
80°	155.3	213.6	268.3	282.4	275.4
82.5°	102.4	160.6	192.4	185.3	183.6
85°	58.3	100.6	107.7	98.8	98.8
87.5°	24.7	40.6	35.3	26.5	24.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)