

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: P261190

Luminaire Tested: **24CZ-LD5-65-S-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261190
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-LD5-65-S-UNV-L82765-W2A1-U-5000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6865.0 lumens
Efficiency: N/A
Efficacy: 137.2 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

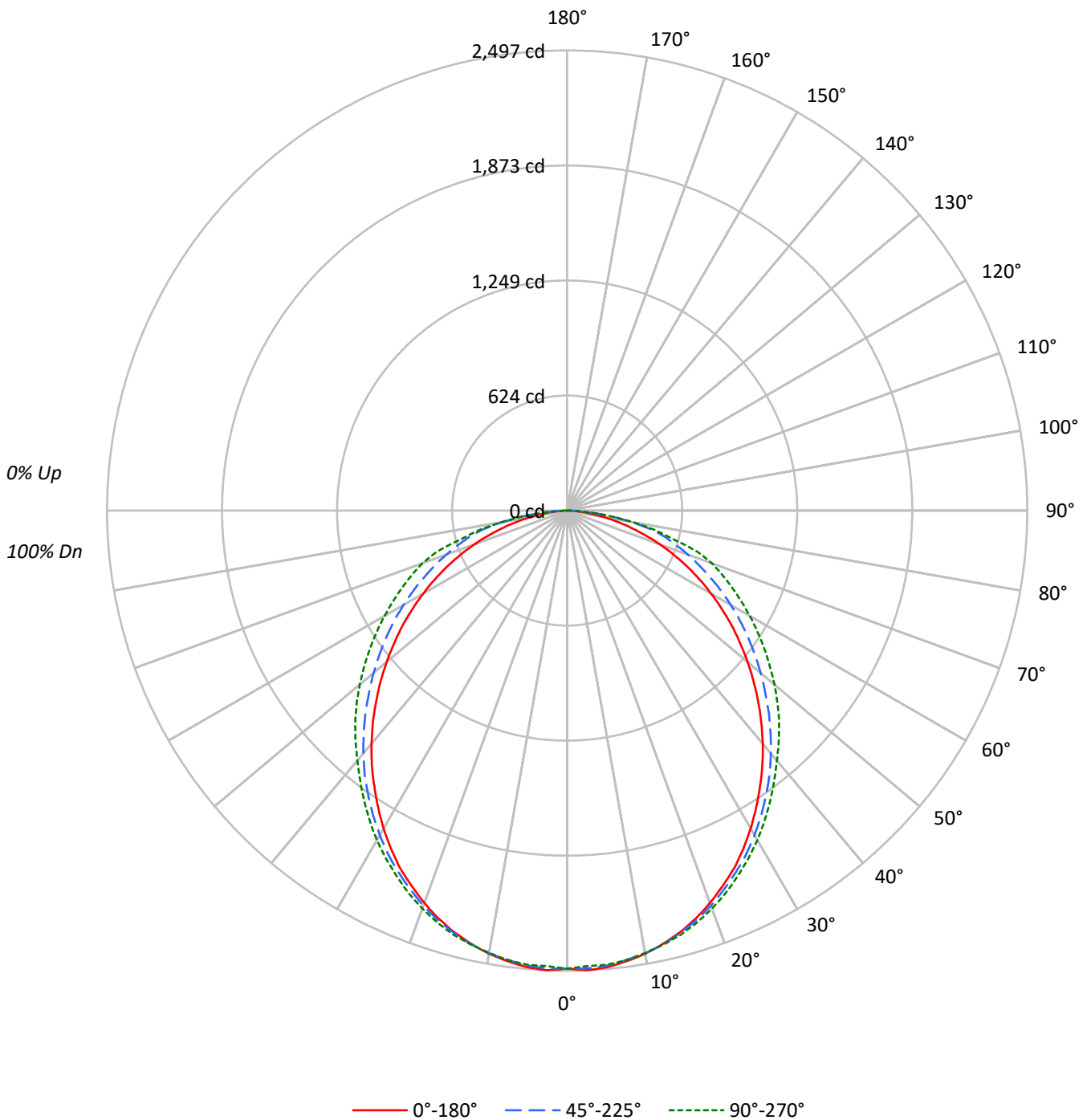
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P261190

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L82765-W2A1-U-5000K

Luminous Intensity Polar Plot





TEST NUMBER: P261190

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L82765-W2A1-U-5000K

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°	3344	3344	3344
5°	3360	3347	3341
10°	3336	3333	3330
15°	3300	3306	3319
20°	3245	3267	3290
25°	3181	3215	3249
30°	3095	3159	3208
35°	2998	3092	3155
40°	2901	3021	3109
45°	2790	2943	3095
50°	2678	2869	3075
55°	2561	2808	3065
60°	2428	2760	3080
65°	2284	2727	3142
70°	2103	2741	3289
75°	1864	2838	3064
80°	1557	2690	2761
85°	1164	2150	1974



TEST NUMBER: P261190

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L82765-W2A1-U-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.0	3.4
10°-20°	668.3	9.7
20°-30°	995.9	14.5
30°-40°	1172.3	17.1
40°-50°	1191.3	17.4
50°-60°	1071.1	15.6
60°-70°	846.2	12.3
70°-80°	536.8	7.8
80°-90°	148.2	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°	1899.1	27.7
0°-40°	3071.4	44.7
0°-60°	5333.8	77.7
0°-90°	6865.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6865.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2485	2485	2485	2485	2485	
5°	2488	2467	2478	2474	2474	236
15°	2369	2357	2373	2380	2382	667
25°	2143	2140	2166	2179	2188	985
35°	1825	1836	1882	1903	1921	1142
45°	1466	1487	1546	1592	1626	1132
55°	1092	1119	1197	1275	1307	975
65°	717	754	857	950	987	710
75°	359	420	546	594	589	382
85°	75	130	139	128	128	93
90°	0	0	0	0	0	



TEST NUMBER: P261190

CATALOG NUMBER: 24CZ-LD5-65-S-UNV-L82765-W2A1-U-5000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2485.3	2485.3	2485.3	2485.3	2485.3
2.5°	2496.7	2478.4	2487.5	2483.0	2473.8
5°	2487.5	2467.0	2478.4	2473.8	2473.8
7.5°	2467.0	2451.0	2460.1	2457.8	2460.1
10°	2441.9	2425.9	2439.6	2439.6	2437.3
12.5°	2407.6	2393.9	2409.9	2409.9	2412.2
15°	2368.8	2357.3	2373.3	2380.2	2382.5
17.5°	2320.8	2309.4	2329.9	2336.8	2343.6
20°	2266.0	2261.4	2282.0	2288.8	2297.9
22.5°	2204.3	2204.3	2224.9	2234.0	2247.7
25°	2142.6	2140.3	2165.5	2179.2	2188.3
27.5°	2069.5	2071.8	2103.8	2117.5	2128.9
30°	1991.9	1996.4	2033.0	2049.0	2065.0
32.5°	1909.6	1918.8	1959.9	1978.2	1994.1
35°	1825.1	1836.5	1882.2	1902.8	1921.0
37.5°	1740.6	1756.6	1804.6	1825.1	1845.7
40°	1651.5	1665.2	1720.0	1745.2	1770.3
42.5°	1560.1	1578.4	1633.2	1669.8	1699.5
45°	1466.5	1487.0	1546.4	1592.1	1626.4
47.5°	1372.8	1400.2	1457.3	1519.0	1548.7
50°	1279.2	1306.6	1370.5	1439.1	1468.8
52.5°	1183.2	1210.6	1283.7	1354.6	1386.5
55°	1091.9	1119.3	1196.9	1274.6	1306.6
57.5°	995.9	1025.6	1112.4	1192.4	1224.4
60°	902.3	932.0	1025.6	1110.1	1144.4
62.5°	810.9	842.9	941.1	1030.2	1064.5
65°	717.3	753.8	856.6	950.2	986.8
67.5°	625.9	667.0	774.4	872.6	911.4
70°	534.5	582.5	696.7	797.2	836.0
72.5°	445.4	498.0	619.0	719.5	740.1
75°	358.6	420.3	545.9	593.9	589.3
77.5°	276.4	344.9	463.7	472.8	486.5
80°	201.0	276.4	347.2	365.5	356.3
82.5°	132.5	207.9	249.0	239.8	237.6
85°	75.4	130.2	139.3	127.9	127.9
87.5°	32.0	52.5	45.7	34.3	32.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)