

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: P260757

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260757
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-LD5-60-UNV-L82765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5695.0 lumens
Efficiency: N/A
Efficacy: 129.5 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

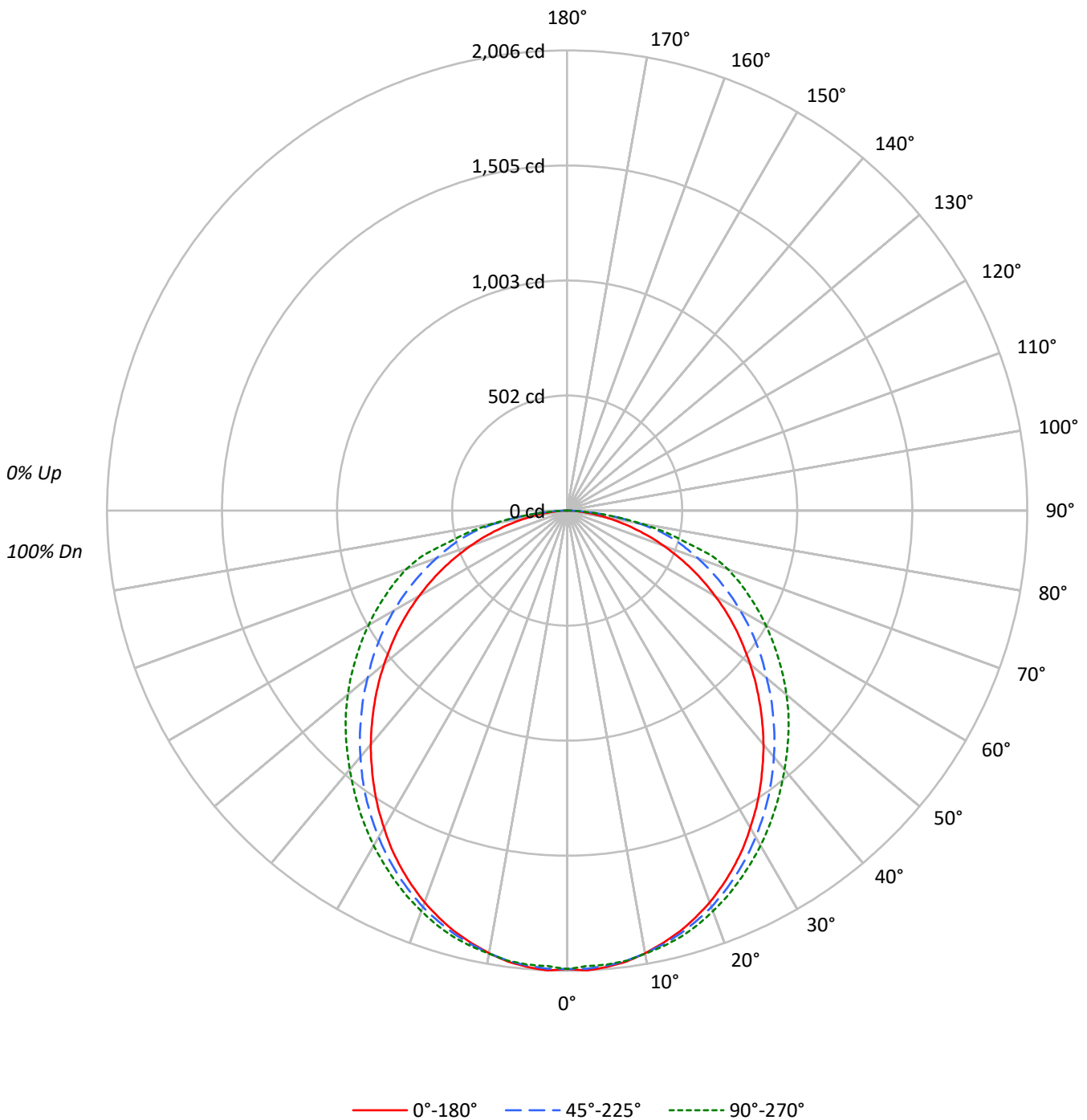
Input Watts (W): 43.989
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260757

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P260757

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-3000K

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	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°	2689	2689	2689
5°	2697	2689	2684
10°	2677	2677	2680
15°	2645	2659	2678
20°	2602	2633	2661
25°	2547	2597	2640
30°	2481	2554	2621
35°	2412	2511	2601
40°	2339	2462	2589
45°	2260	2415	2597
50°	2179	2375	2612
55°	2099	2360	2639
60°	2005	2345	2692
65°	1900	2347	2781
70°	1757	2386	2930
75°	1571	2494	2787
80°	1314	2387	2553
85°	993	1836	1746



TEST NUMBER: P260757

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.9	3.3
10°-20°	537.5	9.4
20°-30°	803.6	14.1
30°-40°	953.3	16.7
40°-50°	981.2	17.2
50°-60°	900.1	15.8
60°-70°	727.8	12.8
70°-80°	472.3	8.3
80°-90°	130.2	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°	1530.0	26.9
0°-40°	2483.3	43.6
0°-60°	4364.6	76.6
0°-90°	5695.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5695.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1999	1999	1999	1999	1999	
5°	1997	1983	1991	1989	1987	189
15°	1899	1891	1909	1917	1923	535
25°	1716	1718	1749	1765	1778	790
35°	1468	1480	1529	1562	1583	918
45°	1188	1207	1269	1330	1365	916
55°	895	922	1006	1088	1125	800
65°	597	632	737	835	874	590
75°	302	359	480	536	536	321
85°	64	109	119	115	113	79
90°	0	0	0	0	0	



TEST NUMBER: P260757

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1998.6	1998.6	1998.6	1998.6	1998.6
2.5°	2006.4	1990.8	1998.6	1996.7	1986.9
5°	1996.7	1983.0	1990.8	1988.9	1986.9
7.5°	1983.0	1969.4	1979.1	1977.2	1979.1
10°	1959.7	1948.0	1959.7	1961.6	1961.6
12.5°	1930.4	1920.7	1936.3	1940.2	1944.1
15°	1899.2	1891.4	1909.0	1916.8	1922.6
17.5°	1860.2	1854.4	1875.8	1885.6	1893.4
20°	1817.3	1815.4	1838.8	1848.5	1858.3
22.5°	1768.6	1768.6	1795.9	1807.6	1821.2
25°	1715.9	1717.9	1749.1	1764.7	1778.3
27.5°	1659.4	1661.3	1698.4	1717.9	1733.5
30°	1597.0	1604.8	1643.8	1669.1	1686.7
32.5°	1534.6	1544.3	1587.2	1616.5	1636.0
35°	1468.3	1480.0	1528.7	1561.9	1583.3
37.5°	1400.0	1413.7	1466.3	1503.4	1528.7
40°	1331.8	1347.4	1402.0	1444.9	1474.1
42.5°	1259.6	1277.2	1337.6	1388.3	1419.5
45°	1187.5	1207.0	1269.4	1329.8	1364.9
47.5°	1115.3	1138.7	1205.0	1271.3	1308.4
50°	1041.2	1064.6	1134.8	1210.9	1247.9
52.5°	967.2	994.4	1072.4	1150.4	1187.5
55°	895.0	922.3	1006.1	1088.0	1125.1
57.5°	820.9	848.2	939.9	1025.6	1062.7
60°	744.9	776.1	871.6	959.4	1000.3
62.5°	670.8	703.9	805.3	898.9	937.9
65°	596.7	631.8	737.1	834.6	873.6
67.5°	520.6	561.6	670.8	770.2	811.2
70°	446.5	491.4	606.4	705.9	744.9
72.5°	374.4	423.1	542.1	643.5	666.9
75°	302.2	358.8	479.7	536.2	536.2
77.5°	234.0	296.4	409.5	430.9	442.6
80°	169.6	237.9	308.1	333.4	329.5
82.5°	113.1	181.3	220.3	220.3	214.5
85°	64.3	109.2	118.9	115.0	113.1
87.5°	27.3	40.9	37.0	29.2	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)