

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: P260762

Luminaire Tested: **24CZ-LD5-60-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260762
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-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6272.0 lumens
Efficiency: N/A
Efficacy: 137.9 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

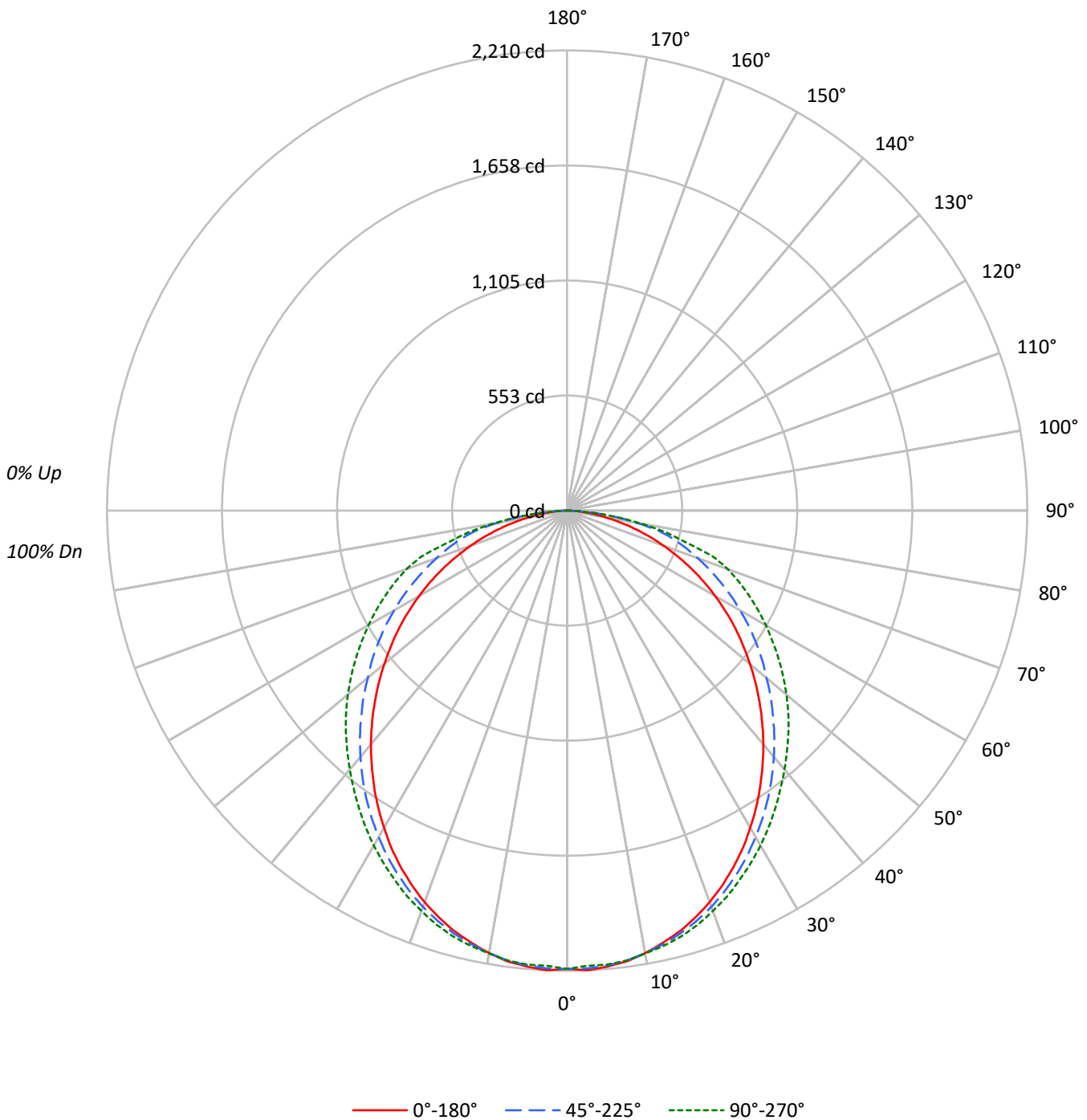
Input Watts (W): 45.477
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P260762

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-5500K

Luminous Intensity Polar Plot





TEST NUMBER: P260762

CATALOG NUMBER: 24CZ-LD5-60-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	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°	2962	2962	2962
5°	2970	2961	2956
10°	2949	2949	2952
15°	2914	2929	2949
20°	2866	2900	2930
25°	2806	2860	2908
30°	2733	2813	2886
35°	2656	2765	2864
40°	2576	2712	2852
45°	2488	2660	2860
50°	2400	2616	2877
55°	2312	2599	2907
60°	2207	2583	2964
65°	2092	2584	3063
70°	1935	2627	3227
75°	1731	2746	3070
80°	1447	2629	2812
85°	1095	2022	1924



TEST NUMBER: P260762

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-5500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	208.0	3.3
10°-20°	592.0	9.4
20°-30°	885.0	14.1
30°-40°	1049.9	16.7
40°-50°	1080.6	17.2
50°-60°	991.3	15.8
60°-70°	801.5	12.8
70°-80°	520.2	8.3
80°-90°	143.4	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°	1685.0	26.9
0°-40°	2734.9	43.6
0°-60°	4806.8	76.6
0°-90°	6272.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6272.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2201	2201	2201	2201	2201	
5°	2199	2184	2193	2190	2188	209
15°	2092	2083	2102	2111	2117	589
25°	1890	1892	1926	1944	1958	870
35°	1617	1630	1684	1720	1744	1011
45°	1308	1329	1398	1465	1503	1009
55°	986	1016	1108	1198	1239	881
65°	657	696	812	919	962	649
75°	333	395	528	591	591	354
85°	71	120	131	127	125	87
90°	0	0	0	0	0	



TEST NUMBER: P260762

CATALOG NUMBER: 24CZ-LD5-60-UNV-L82765-W2A1-U-5500K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2201.1	2201.1	2201.1	2201.1	2201.1
2.5°	2209.7	2192.6	2201.1	2199.0	2188.3
5°	2199.0	2184.0	2192.6	2190.4	2188.3
7.5°	2184.0	2168.9	2179.7	2177.5	2179.7
10°	2158.2	2145.3	2158.2	2160.3	2160.3
12.5°	2126.0	2115.2	2132.4	2136.7	2141.0
15°	2091.6	2083.0	2102.4	2111.0	2117.4
17.5°	2048.7	2042.2	2065.9	2076.6	2085.2
20°	2001.4	1999.3	2025.1	2035.8	2046.5
22.5°	1947.7	1947.7	1977.8	1990.7	2005.7
25°	1889.8	1891.9	1926.3	1943.5	1958.5
27.5°	1827.5	1829.6	1870.4	1891.9	1909.1
30°	1758.8	1767.4	1810.3	1838.2	1857.6
32.5°	1690.1	1700.8	1748.0	1780.2	1801.7
35°	1617.0	1629.9	1683.6	1720.1	1743.7
37.5°	1541.9	1556.9	1614.9	1655.7	1683.6
40°	1466.7	1483.9	1544.0	1591.3	1623.5
42.5°	1387.3	1406.6	1473.2	1529.0	1563.4
45°	1307.8	1329.3	1398.0	1464.6	1503.2
47.5°	1228.3	1254.1	1327.1	1400.1	1440.9
50°	1146.7	1172.5	1249.8	1333.6	1374.4
52.5°	1065.1	1095.2	1181.1	1267.0	1307.8
55°	985.7	1015.7	1108.1	1198.3	1239.1
57.5°	904.1	934.1	1035.1	1129.6	1170.4
60°	820.3	854.7	959.9	1056.6	1101.6
62.5°	738.7	775.2	886.9	990.0	1032.9
65°	657.1	695.8	811.7	919.1	962.1
67.5°	573.4	618.5	738.7	848.2	893.3
70°	491.8	541.2	667.9	777.4	820.3
72.5°	412.3	466.0	597.0	708.7	734.4
75°	332.9	395.1	528.3	590.6	590.6
77.5°	257.7	326.4	451.0	474.6	487.5
80°	186.8	262.0	339.3	367.2	362.9
82.5°	124.6	199.7	242.7	242.7	236.2
85°	70.9	120.3	131.0	126.7	124.6
87.5°	30.1	45.1	40.8	32.2	27.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)