

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: P261321

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261321
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-L92765-W2A1-U-3000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5433.0 lumens
Efficiency: N/A
Efficacy: 112.1 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

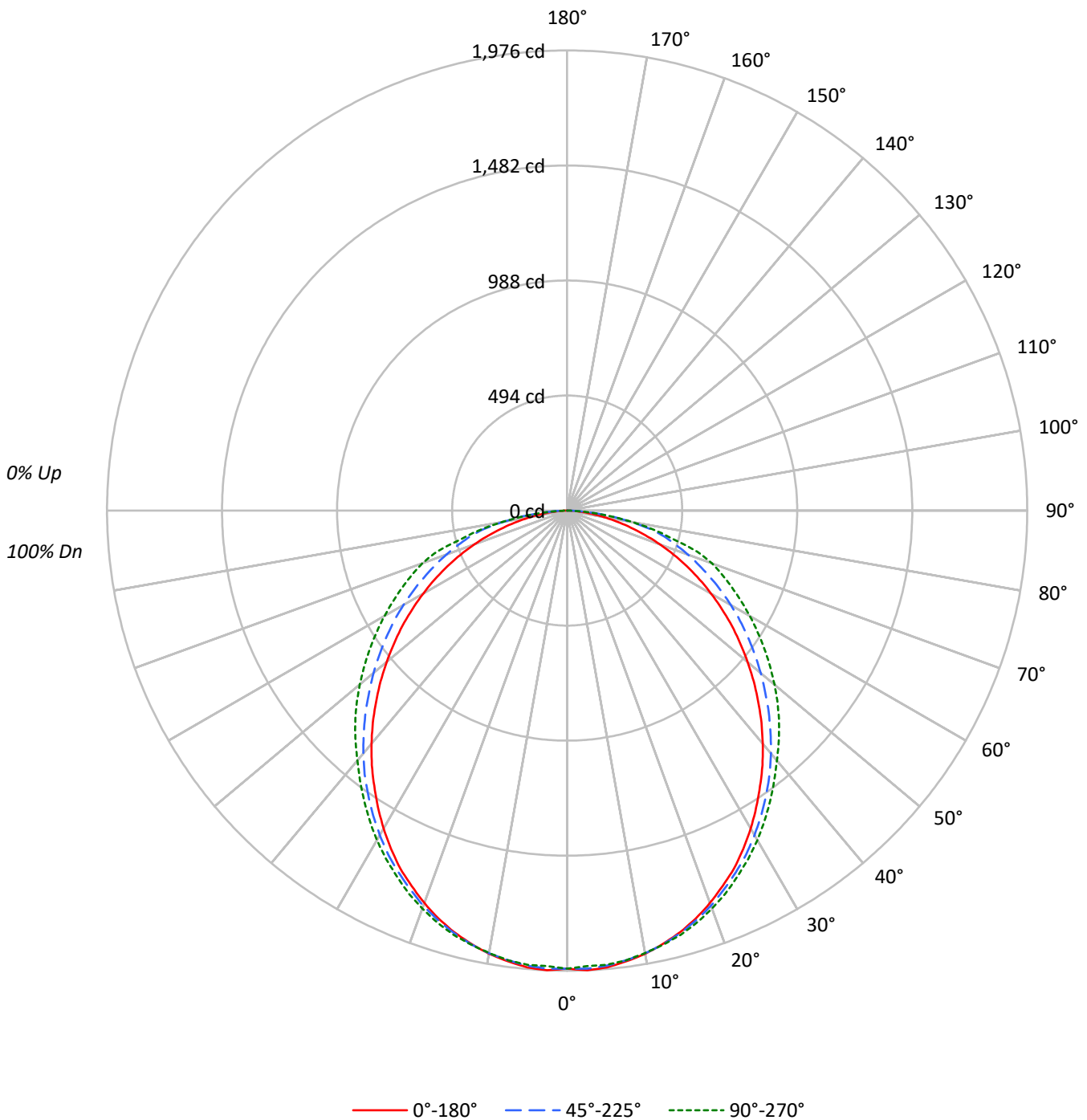
Input Watts (W): 48.453
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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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°	2646	2646	2646
5°	2659	2649	2644
10°	2640	2638	2635
15°	2611	2616	2626
20°	2568	2586	2604
25°	2517	2544	2571
30°	2449	2500	2539
35°	2372	2447	2497
40°	2296	2391	2461
45°	2208	2329	2449
50°	2119	2271	2433
55°	2027	2222	2426
60°	1922	2184	2437
65°	1807	2158	2486
70°	1664	2169	2603
75°	1475	2246	2425
80°	1233	2129	2185
85°	922	1703	1562



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	3.4
10°-20°	528.9	9.7
20°-30°	788.2	14.5
30°-40°	927.8	17.1
40°-50°	942.8	17.4
50°-60°	847.7	15.6
60°-70°	669.7	12.3
70°-80°	424.8	7.8
80°-90°	117.2	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°	1503.0	27.7
0°-40°	2430.7	44.7
0°-60°	4221.3	77.7
0°-90°	5433.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5433.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1967	1967	1967	1967	1967	
5°	1969	1952	1961	1958	1958	187
15°	1875	1866	1878	1884	1886	528
25°	1696	1694	1714	1725	1732	780
35°	1444	1453	1490	1506	1520	904
45°	1161	1177	1224	1260	1287	896
55°	864	886	947	1009	1034	772
65°	568	597	678	752	781	562
75°	284	333	432	470	466	302
85°	60	103	110	101	101	73
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1966.8	1966.8	1966.8	1966.8	1966.8
2.5°	1975.9	1961.4	1968.7	1965.0	1957.8
5°	1968.7	1952.4	1961.4	1957.8	1957.8
7.5°	1952.4	1939.7	1947.0	1945.2	1947.0
10°	1932.5	1919.8	1930.7	1930.7	1928.9
12.5°	1905.4	1894.5	1907.2	1907.2	1909.0
15°	1874.7	1865.6	1878.3	1883.7	1885.5
17.5°	1836.7	1827.6	1843.9	1849.3	1854.8
20°	1793.3	1789.7	1806.0	1811.4	1818.6
22.5°	1744.5	1744.5	1760.8	1768.0	1778.8
25°	1695.7	1693.9	1713.8	1724.6	1731.8
27.5°	1637.8	1639.6	1664.9	1675.8	1684.8
30°	1576.4	1580.0	1608.9	1621.6	1634.2
32.5°	1511.3	1518.5	1551.1	1565.5	1578.2
35°	1444.4	1453.4	1489.6	1505.9	1520.3
37.5°	1377.5	1390.2	1428.1	1444.4	1460.7
40°	1307.0	1317.9	1361.2	1381.1	1401.0
42.5°	1234.7	1249.2	1292.6	1321.5	1345.0
45°	1160.6	1176.9	1223.9	1260.0	1287.1
47.5°	1086.5	1108.2	1153.4	1202.2	1225.7
50°	1012.3	1034.0	1084.7	1138.9	1162.4
52.5°	936.4	958.1	1016.0	1072.0	1097.3
55°	864.1	885.8	947.3	1008.7	1034.0
57.5°	788.2	811.7	880.4	943.7	969.0
60°	714.1	737.6	811.7	878.6	905.7
62.5°	641.8	667.1	744.8	815.3	842.4
65°	567.6	596.6	677.9	752.0	781.0
67.5°	495.3	527.9	612.8	690.6	721.3
70°	423.0	461.0	551.4	630.9	661.6
72.5°	352.5	394.1	489.9	569.4	585.7
75°	283.8	332.6	432.1	470.0	466.4
77.5°	218.7	273.0	367.0	374.2	385.1
80°	159.1	218.7	274.8	289.2	282.0
82.5°	104.9	164.5	197.0	189.8	188.0
85°	59.7	103.0	110.3	101.2	101.2
87.5°	25.3	41.6	36.2	27.1	25.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)