

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: P261322

Luminaire Tested: **24CZ-LD5-65-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261322
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-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5704.0 lumens
Efficiency: N/A
Efficacy: 116.4 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

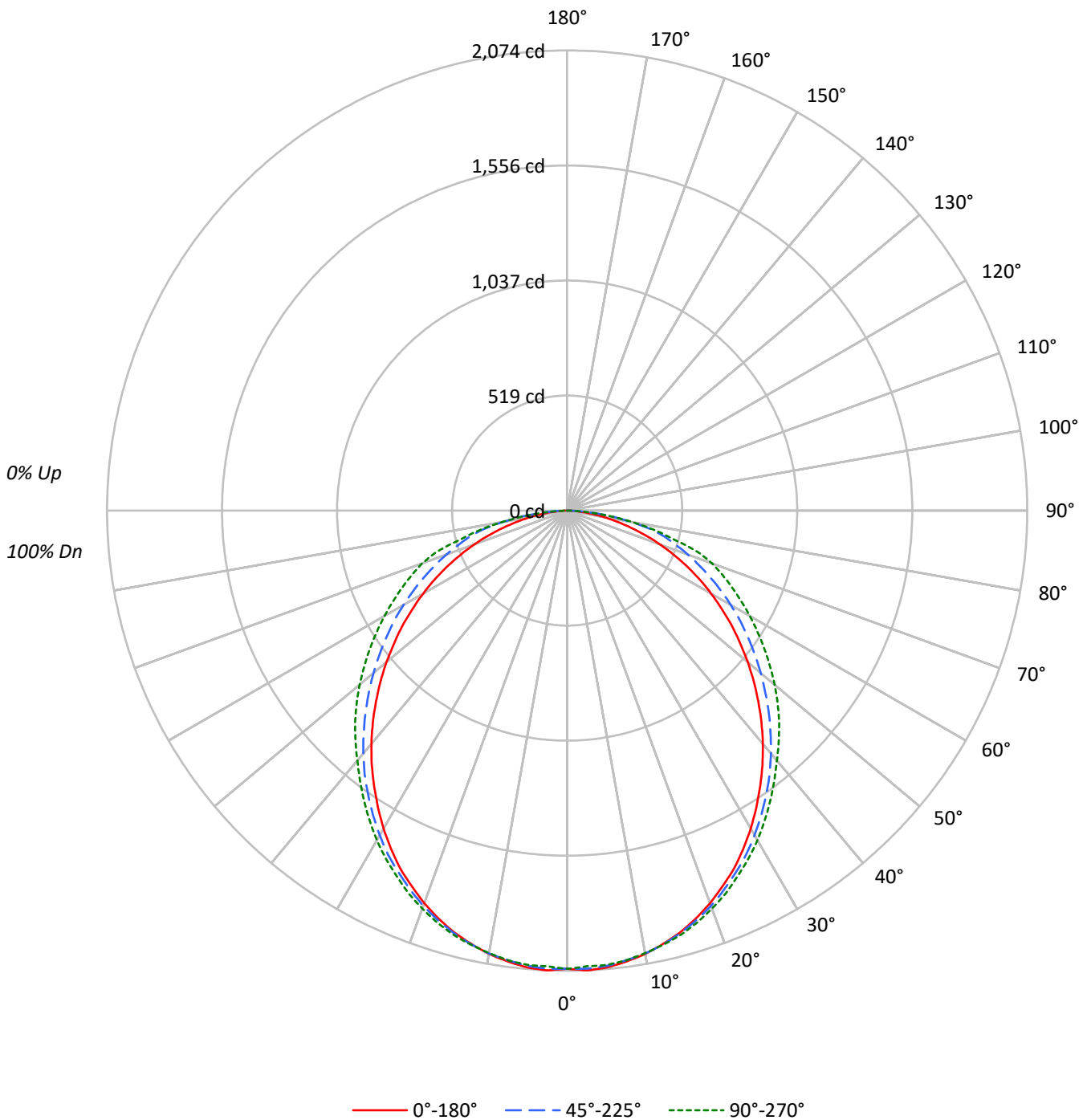
Input Watts (W): 49.011
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83					83			
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69					69			
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58					58			
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50					50			
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43					43			
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38					38			
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33					33			
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30					30			
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27					27			
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2778	2778	2778
5°	2792	2781	2776
10°	2772	2769	2767
15°	2742	2747	2757
20°	2696	2715	2734
25°	2643	2671	2699
30°	2571	2624	2666
35°	2491	2569	2622
40°	2410	2510	2584
45°	2319	2445	2571
50°	2225	2384	2555
55°	2128	2333	2547
60°	2017	2293	2559
65°	1897	2266	2610
70°	1747	2277	2733
75°	1549	2358	2546
80°	1294	2235	2294
85°	966	1788	1641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.2	3.4
10°-20°	555.2	9.7
20°-30°	827.5	14.5
30°-40°	974.0	17.1
40°-50°	989.9	17.4
50°-60°	889.9	15.6
60°-70°	703.1	12.3
70°-80°	446.0	7.8
80°-90°	123.1	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°	1577.9	27.7
0°-40°	2552.0	44.7
0°-60°	4431.8	77.7
0°-90°	5704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5704.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2065	2065	2065	2065	2065	
5°	2067	2050	2059	2056	2056	196
15°	1968	1959	1972	1978	1980	554
25°	1780	1778	1799	1811	1818	819
35°	1516	1526	1564	1581	1596	949
45°	1218	1236	1285	1323	1351	940
55°	907	930	994	1059	1086	810
65°	596	626	712	790	820	590
75°	298	349	454	494	490	317
85°	63	108	116	106	106	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2065.0	2065.0	2065.0	2065.0	2065.0
2.5°	2074.4	2059.3	2066.9	2063.1	2055.5
5°	2066.9	2049.8	2059.3	2055.5	2055.5
7.5°	2049.8	2036.5	2044.1	2042.2	2044.1
10°	2028.9	2015.6	2027.0	2027.0	2025.1
12.5°	2000.4	1989.0	2002.3	2002.3	2004.2
15°	1968.2	1958.7	1972.0	1977.6	1979.5
17.5°	1928.3	1918.8	1935.9	1941.6	1947.3
20°	1882.8	1879.0	1896.0	1901.7	1909.3
22.5°	1831.5	1831.5	1848.6	1856.2	1867.6
25°	1780.3	1778.4	1799.2	1810.6	1818.2
27.5°	1719.5	1721.4	1748.0	1759.4	1768.9
30°	1655.0	1658.8	1689.2	1702.4	1715.7
32.5°	1586.7	1594.3	1628.4	1643.6	1656.9
35°	1516.4	1525.9	1563.9	1581.0	1596.2
37.5°	1446.2	1459.5	1499.4	1516.4	1533.5
40°	1372.2	1383.6	1429.1	1450.0	1470.9
42.5°	1296.3	1311.5	1357.0	1387.4	1412.1
45°	1218.5	1235.6	1284.9	1322.9	1351.3
47.5°	1140.7	1163.4	1210.9	1262.1	1286.8
50°	1062.8	1085.6	1138.8	1195.7	1220.4
52.5°	983.1	1005.9	1066.6	1125.5	1152.0
55°	907.2	930.0	994.5	1059.0	1085.6
57.5°	827.5	852.2	924.3	990.7	1017.3
60°	749.7	774.4	852.2	922.4	950.9
62.5°	673.8	700.3	781.9	856.0	884.4
65°	596.0	626.3	711.7	789.5	819.9
67.5°	520.0	554.2	643.4	725.0	757.3
70°	444.1	484.0	578.9	662.4	694.6
72.5°	370.1	413.7	514.3	597.8	614.9
75°	298.0	349.2	453.6	493.5	489.7
77.5°	229.7	286.6	385.3	392.9	404.3
80°	167.0	229.7	288.5	303.7	296.1
82.5°	110.1	172.7	206.9	199.3	197.4
85°	62.6	108.2	115.8	106.3	106.3
87.5°	26.6	43.7	38.0	28.5	26.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)