

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: P261319

Luminaire Tested: **24CZ-LD5-60-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261319
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-LD5-60-S-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5840.0 lumens
Efficiency: N/A
Efficacy: 126.1 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

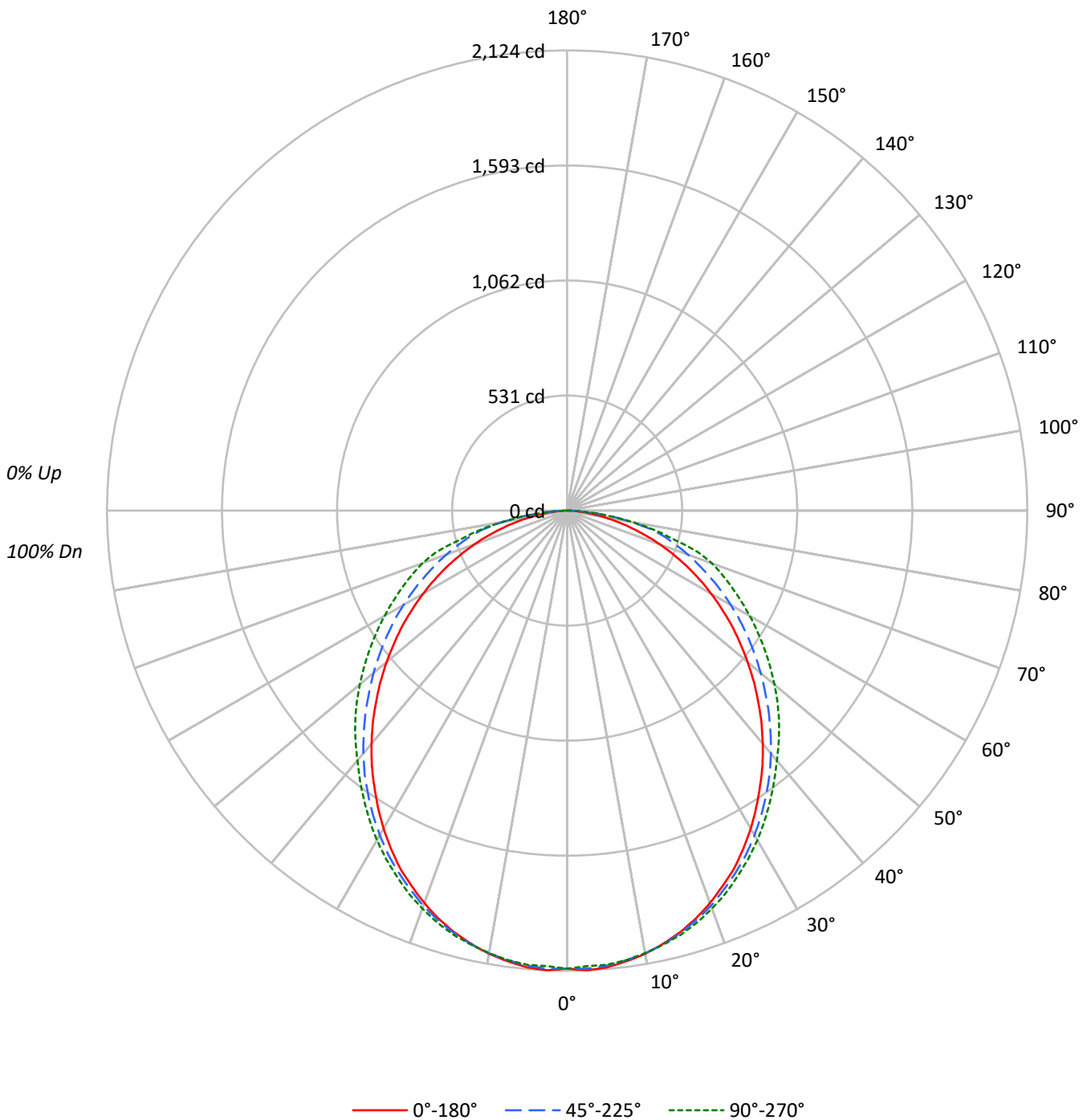
Input Watts (W): 46.314
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2845	2845	2845
5°	2858	2848	2842
10°	2838	2835	2833
15°	2807	2812	2823
20°	2760	2779	2799
25°	2706	2735	2764
30°	2633	2687	2729
35°	2550	2630	2684
40°	2468	2570	2645
45°	2374	2503	2633
50°	2278	2440	2615
55°	2179	2388	2607
60°	2066	2348	2620
65°	1943	2320	2673
70°	1789	2332	2798
75°	1586	2414	2606
80°	1325	2289	2349
85°	990	1829	1680



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.9	3.4
10°-20°	568.5	9.7
20°-30°	847.2	14.5
30°-40°	997.3	17.1
40°-50°	1013.5	17.4
50°-60°	911.2	15.6
60°-70°	719.8	12.3
70°-80°	456.7	7.8
80°-90°	126.0	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°	1615.6	27.7
0°-40°	2612.8	44.7
0°-60°	4537.5	77.7
0°-90°	5840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5840.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2114	2114	2114	2114	2114	
5°	2116	2099	2108	2104	2104	201
15°	2015	2005	2019	2025	2027	568
25°	1823	1821	1842	1854	1862	838
35°	1553	1562	1601	1619	1634	971
45°	1248	1265	1316	1354	1384	963
55°	929	952	1018	1084	1112	829
65°	610	641	729	808	840	604
75°	305	358	464	505	501	325
85°	64	111	118	109	109	79
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2114.2	2114.2	2114.2	2114.2	2114.2
2.5°	2123.9	2108.4	2116.1	2112.2	2104.5
5°	2116.1	2098.6	2108.4	2104.5	2104.5
7.5°	2098.6	2085.0	2092.8	2090.9	2092.8
10°	2077.3	2063.7	2075.3	2075.3	2073.4
12.5°	2048.1	2036.5	2050.1	2050.1	2052.0
15°	2015.1	2005.4	2019.0	2024.8	2026.7
17.5°	1974.3	1964.6	1982.1	1987.9	1993.7
20°	1927.6	1923.8	1941.2	1947.1	1954.8
22.5°	1875.2	1875.2	1892.7	1900.4	1912.1
25°	1822.7	1820.8	1842.1	1853.8	1861.6
27.5°	1760.5	1762.5	1789.7	1801.3	1811.1
30°	1694.5	1698.3	1729.4	1743.0	1756.6
32.5°	1624.5	1632.3	1667.3	1682.8	1696.4
35°	1552.6	1562.3	1601.2	1618.7	1634.2
37.5°	1480.7	1494.3	1535.1	1552.6	1570.1
40°	1404.9	1416.6	1463.2	1484.6	1506.0
42.5°	1327.2	1342.7	1389.4	1420.5	1445.7
45°	1247.5	1265.0	1315.5	1354.4	1383.5
47.5°	1167.9	1191.2	1239.8	1292.2	1317.5
50°	1088.2	1111.5	1165.9	1224.2	1249.5
52.5°	1006.6	1029.9	1092.1	1152.3	1179.5
55°	928.8	952.2	1018.2	1084.3	1111.5
57.5°	847.2	872.5	946.3	1014.3	1041.5
60°	767.6	792.8	872.5	944.4	973.5
62.5°	689.8	717.0	800.6	876.4	905.5
65°	610.2	641.3	728.7	808.4	839.5
67.5°	532.4	567.4	658.7	742.3	775.3
70°	454.7	495.5	592.7	678.2	711.2
72.5°	378.9	423.6	526.6	612.1	629.6
75°	305.1	357.5	464.4	505.2	501.3
77.5°	235.1	293.4	394.5	402.2	413.9
80°	171.0	235.1	295.4	310.9	303.1
82.5°	112.7	176.8	211.8	204.0	202.1
85°	64.1	110.8	118.5	108.8	108.8
87.5°	27.2	44.7	38.9	29.1	27.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)