

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: P261164

Luminaire Tested: **24CZ-LD5-50-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261164
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-LD5-50-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED AT 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5331.0 lumens
Efficiency: N/A
Efficacy: 145.1 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

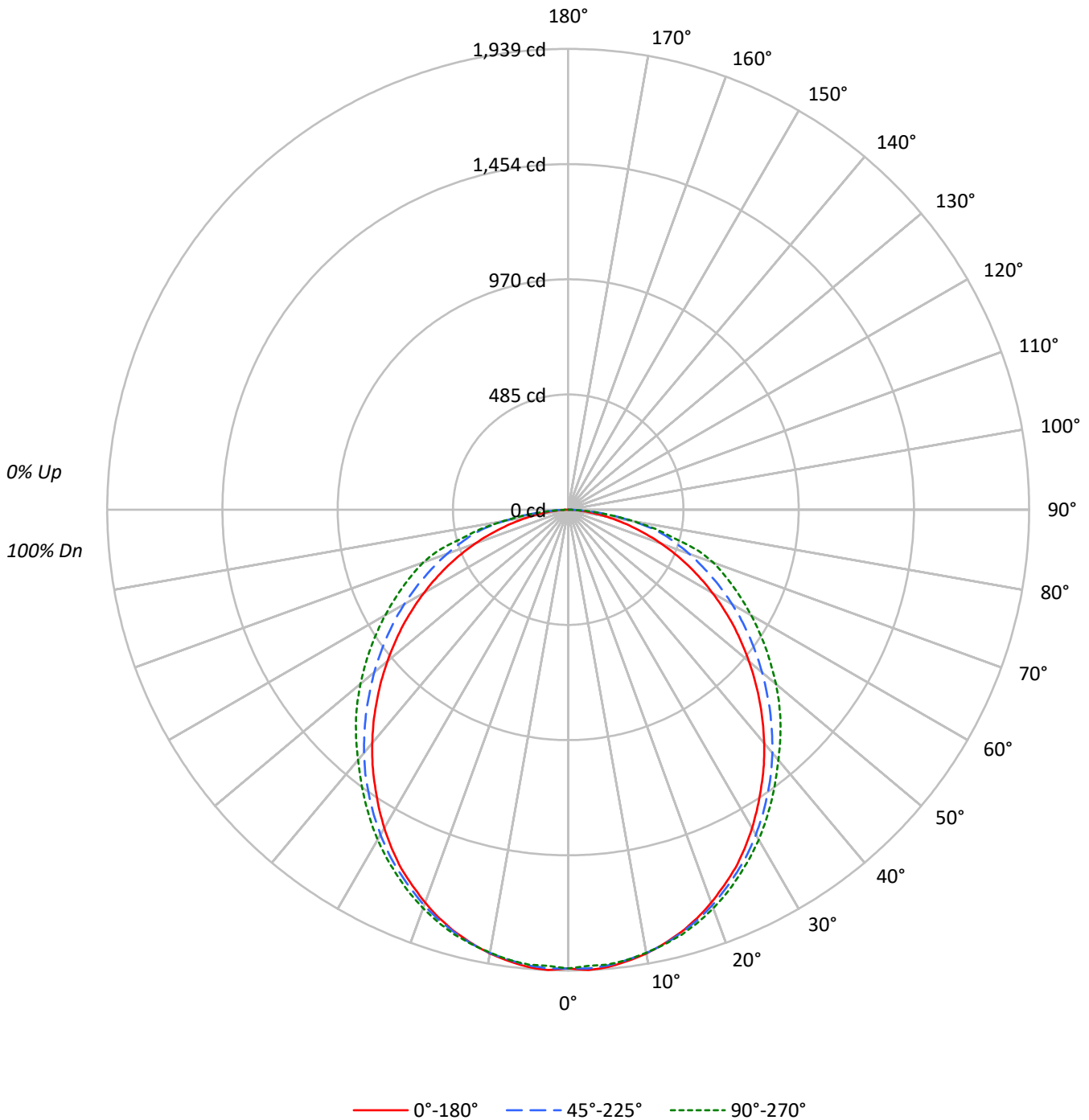
Input Watts (W): 36.735
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2597	2597	2597
5°	2609	2599	2595
10°	2591	2588	2586
15°	2562	2567	2577
20°	2519	2537	2555
25°	2470	2496	2523
30°	2403	2453	2491
35°	2328	2401	2450
40°	2253	2346	2415
45°	2167	2285	2403
50°	2079	2228	2388
55°	1989	2180	2380
60°	1886	2143	2391
65°	1773	2118	2440
70°	1633	2128	2554
75°	1448	2204	2379
80°	1210	2089	2144
85°	903	1670	1533



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.4
10°-20°	518.9	9.7
20°-30°	773.3	14.5
30°-40°	910.4	17.1
40°-50°	925.1	17.4
50°-60°	831.8	15.6
60°-70°	657.1	12.3
70°-80°	416.9	7.8
80°-90°	115.0	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°	1474.8	27.7
0°-40°	2385.1	44.7
0°-60°	4142.0	77.7
0°-90°	5331.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5331.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1930	1930	1930	1930	1930	
5°	1932	1916	1925	1921	1921	183
15°	1840	1831	1843	1848	1850	518
25°	1664	1662	1682	1692	1699	765
35°	1417	1426	1462	1478	1492	887
45°	1139	1155	1201	1236	1263	879
55°	848	869	930	990	1015	757
65°	557	585	665	738	766	552
75°	278	326	424	461	458	296
85°	58	101	108	99	99	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1929.9	1929.9	1929.9	1929.9	1929.9
2.5°	1938.8	1924.6	1931.7	1928.1	1921.1
5°	1931.7	1915.7	1924.6	1921.1	1921.1
7.5°	1915.7	1903.3	1910.4	1908.6	1910.4
10°	1896.2	1883.8	1894.4	1894.4	1892.7
12.5°	1869.6	1859.0	1871.4	1871.4	1873.2
15°	1839.5	1830.6	1843.0	1848.3	1850.1
17.5°	1802.2	1793.3	1809.3	1814.6	1819.9
20°	1759.6	1756.1	1772.0	1777.4	1784.5
22.5°	1711.7	1711.7	1727.7	1734.8	1745.4
25°	1663.8	1662.1	1681.6	1692.2	1699.3
27.5°	1607.1	1608.9	1633.7	1644.3	1653.2
30°	1546.8	1550.3	1578.7	1591.1	1603.5
32.5°	1482.9	1490.0	1521.9	1536.1	1548.5
35°	1417.3	1426.2	1461.6	1477.6	1491.8
37.5°	1351.7	1364.1	1401.3	1417.3	1433.2
40°	1282.5	1293.1	1335.7	1355.2	1374.7
42.5°	1211.5	1225.7	1268.3	1296.7	1319.7
45°	1138.8	1154.8	1200.9	1236.4	1263.0
47.5°	1066.1	1087.4	1131.7	1179.6	1202.7
50°	993.3	1014.6	1064.3	1117.5	1140.6
52.5°	918.8	940.1	996.9	1051.9	1076.7
55°	847.9	869.2	929.5	989.8	1014.6
57.5°	773.4	796.4	863.9	925.9	950.8
60°	700.7	723.7	796.4	862.1	888.7
62.5°	629.7	654.5	730.8	800.0	826.6
65°	557.0	585.4	665.2	737.9	766.3
67.5°	486.0	518.0	601.3	677.6	707.8
70°	415.1	452.3	541.0	619.1	649.2
72.5°	345.9	386.7	480.7	558.8	574.7
75°	278.5	326.4	423.9	461.2	457.6
77.5°	214.6	267.8	360.1	367.2	377.8
80°	156.1	214.6	269.6	283.8	276.7
82.5°	102.9	161.4	193.3	186.3	184.5
85°	58.5	101.1	108.2	99.3	99.3
87.5°	24.8	40.8	35.5	26.6	24.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)