

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: P261256

Luminaire Tested: **24CZ-LD5-50SE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261256
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-LD5-50SE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5333.0 lumens
Efficiency: N/A
Efficacy: 128.6 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

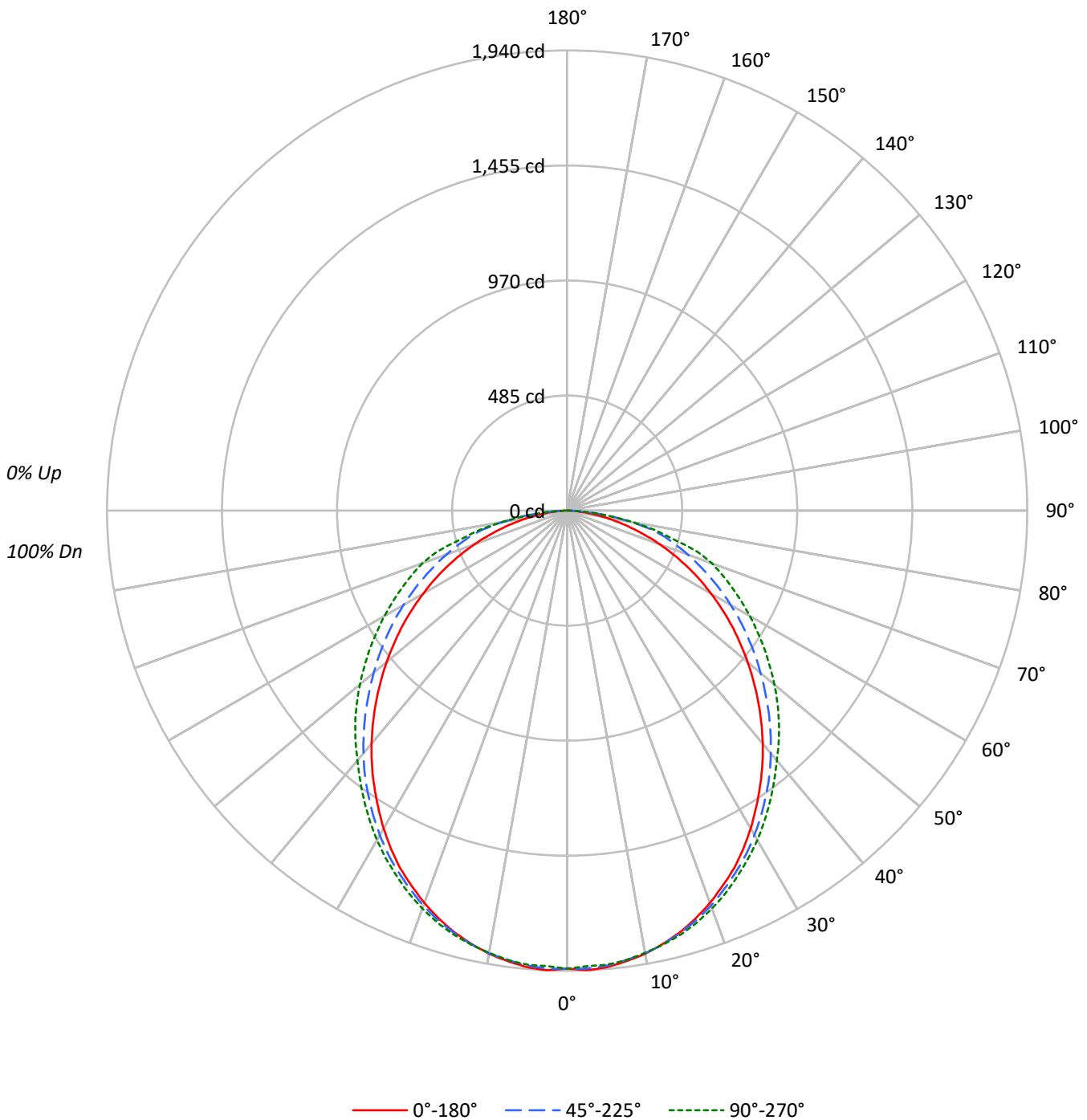
Input Watts (W): 41.478
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2598	2598	2598
5°	2610	2600	2596
10°	2592	2589	2587
15°	2563	2568	2578
20°	2520	2538	2556
25°	2471	2497	2524
30°	2404	2454	2492
35°	2329	2402	2451
40°	2253	2347	2415
45°	2168	2286	2404
50°	2080	2229	2388
55°	1990	2181	2381
60°	1886	2144	2392
65°	1774	2118	2441
70°	1633	2129	2555
75°	1448	2205	2380
80°	1210	2090	2145
85°	905	1670	1535



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.5	3.4
10°-20°	519.1	9.7
20°-30°	773.6	14.5
30°-40°	910.7	17.1
40°-50°	925.5	17.4
50°-60°	832.1	15.6
60°-70°	657.4	12.3
70°-80°	417.0	7.8
80°-90°	115.1	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°	1475.3	27.7
0°-40°	2386.0	44.7
0°-60°	4143.5	77.7
0°-90°	5333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5333.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1931	1931	1931	1931	1931	
5°	1932	1916	1925	1922	1922	183
15°	1840	1831	1844	1849	1851	518
25°	1664	1663	1682	1693	1700	765
35°	1418	1427	1462	1478	1492	887
45°	1139	1155	1201	1237	1263	879
55°	848	870	930	990	1015	757
65°	557	586	665	738	767	552
75°	279	326	424	461	458	297
85°	59	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°	1930.6	1930.6	1930.6	1930.6	1930.6
2.5°	1939.5	1925.3	1932.4	1928.9	1921.8
5°	1932.4	1916.4	1925.3	1921.8	1921.8
7.5°	1916.4	1904.0	1911.1	1909.4	1911.1
10°	1896.9	1884.5	1895.2	1895.2	1893.4
12.5°	1870.3	1859.7	1872.1	1872.1	1873.9
15°	1840.1	1831.3	1843.7	1849.0	1850.8
17.5°	1802.9	1794.0	1810.0	1815.3	1820.6
20°	1760.3	1756.7	1772.7	1778.0	1785.1
22.5°	1712.4	1712.4	1728.4	1735.5	1746.1
25°	1664.5	1662.7	1682.2	1692.9	1700.0
27.5°	1607.7	1609.5	1634.3	1645.0	1653.8
30°	1547.4	1550.9	1579.3	1591.7	1604.1
32.5°	1483.5	1490.6	1522.5	1536.7	1549.1
35°	1417.8	1426.7	1462.2	1478.1	1492.3
37.5°	1352.2	1364.6	1401.8	1417.8	1433.8
40°	1283.0	1293.6	1336.2	1355.7	1375.2
42.5°	1212.0	1226.2	1268.8	1297.2	1320.2
45°	1139.2	1155.2	1201.3	1236.8	1263.4
47.5°	1066.5	1087.8	1132.1	1180.0	1203.1
50°	993.7	1015.0	1064.7	1117.9	1141.0
52.5°	919.2	940.5	997.3	1052.3	1077.1
55°	848.2	869.5	929.8	990.2	1015.0
57.5°	773.7	796.7	864.2	926.3	951.1
60°	700.9	724.0	796.7	862.4	889.0
62.5°	629.9	654.8	731.1	800.3	826.9
65°	557.2	585.6	665.4	738.2	766.6
67.5°	486.2	518.2	601.6	677.9	708.0
70°	415.2	452.5	541.2	619.3	649.5
72.5°	346.0	386.8	480.9	559.0	574.9
75°	278.6	326.5	424.1	461.4	457.8
77.5°	214.7	267.9	360.2	367.3	378.0
80°	156.2	214.7	269.7	283.9	276.8
82.5°	102.9	161.5	193.4	186.3	184.5
85°	58.6	101.1	108.2	99.4	99.4
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)