

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: P260741

Luminaire Tested: **24CZ-LD5-50-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260741
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-50-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5017.0 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

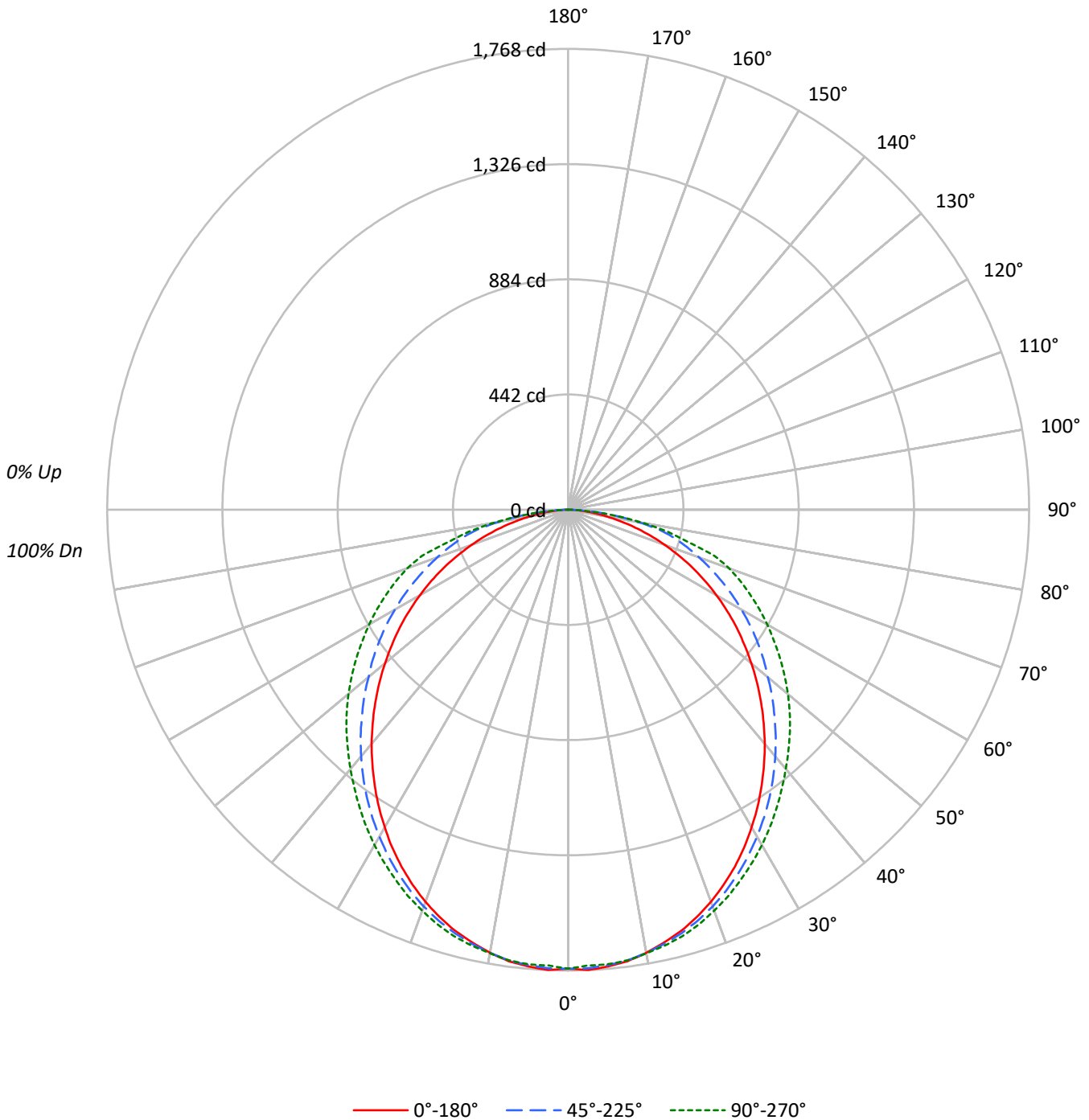
Input Watts (W): 36.084
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2369	2369	2369
5°	2376	2369	2364
10°	2359	2359	2361
15°	2331	2343	2359
20°	2292	2319	2344
25°	2244	2287	2326
30°	2186	2250	2309
35°	2125	2212	2291
40°	2061	2169	2281
45°	1991	2128	2288
50°	1920	2093	2301
55°	1850	2079	2325
60°	1766	2066	2371
65°	1673	2067	2450
70°	1548	2102	2581
75°	1384	2197	2456
80°	1158	2103	2249
85°	875	1618	1538



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.4	3.3
10°-20°	473.5	9.4
20°-30°	707.9	14.1
30°-40°	839.8	16.7
40°-50°	864.4	17.2
50°-60°	793.0	15.8
60°-70°	641.1	12.8
70°-80°	416.1	8.3
80°-90°	114.7	2.3
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°	1347.8	26.9
0°-40°	2187.7	43.6
0°-60°	3845.0	76.6
0°-90°	5017.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5017.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1761	1761	1761	1761	1761	
5°	1759	1747	1754	1752	1750	167
15°	1673	1666	1682	1689	1694	471
25°	1512	1513	1541	1555	1567	696
35°	1294	1304	1347	1376	1395	809
45°	1046	1063	1118	1172	1202	807
55°	788	812	886	958	991	704
65°	526	557	649	735	770	519
75°	266	316	423	472	472	283
85°	57	96	105	101	100	69
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1760.7	1760.7	1760.7	1760.7	1760.7
2.5°	1767.6	1753.8	1760.7	1759.0	1750.4
5°	1759.0	1747.0	1753.8	1752.1	1750.4
7.5°	1747.0	1734.9	1743.5	1741.8	1743.5
10°	1726.4	1716.0	1726.4	1728.1	1728.1
12.5°	1700.6	1692.0	1705.7	1709.2	1712.6
15°	1673.1	1666.2	1681.7	1688.6	1693.7
17.5°	1638.7	1633.6	1652.5	1661.1	1667.9
20°	1601.0	1599.2	1619.8	1628.4	1637.0
22.5°	1558.0	1558.0	1582.1	1592.4	1604.4
25°	1511.6	1513.3	1540.8	1554.6	1566.6
27.5°	1461.8	1463.5	1496.2	1513.3	1527.1
30°	1406.8	1413.7	1448.1	1470.4	1485.9
32.5°	1351.9	1360.5	1398.3	1424.0	1441.2
35°	1293.5	1303.8	1346.7	1375.9	1394.8
37.5°	1233.4	1245.4	1291.8	1324.4	1346.7
40°	1173.2	1187.0	1235.1	1272.9	1298.6
42.5°	1109.7	1125.1	1178.4	1223.0	1250.5
45°	1046.1	1063.3	1118.3	1171.5	1202.4
47.5°	982.6	1003.2	1061.6	1120.0	1152.6
50°	917.3	937.9	999.7	1066.7	1099.4
52.5°	852.0	876.1	944.8	1013.5	1046.1
55°	788.5	812.5	886.4	958.5	991.1
57.5°	723.2	747.2	828.0	903.5	936.2
60°	656.2	683.7	767.8	845.1	881.2
62.5°	590.9	620.1	709.4	791.9	826.2
65°	525.6	556.6	649.3	735.2	769.6
67.5°	458.6	494.7	590.9	678.5	714.6
70°	393.4	432.9	534.2	621.8	656.2
72.5°	329.8	372.8	477.5	566.9	587.5
75°	266.3	316.1	422.6	472.4	472.4
77.5°	206.1	261.1	360.7	379.6	389.9
80°	149.4	209.6	271.4	293.7	290.3
82.5°	99.6	159.8	194.1	194.1	189.0
85°	56.7	96.2	104.8	101.3	99.6
87.5°	24.0	36.1	32.6	25.8	22.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)