

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: P261304

Luminaire Tested: **24CZ-LD5-55-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261304
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-LD5-55-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: 4844.0 lumens
Efficiency: N/A
Efficacy: 120.6 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

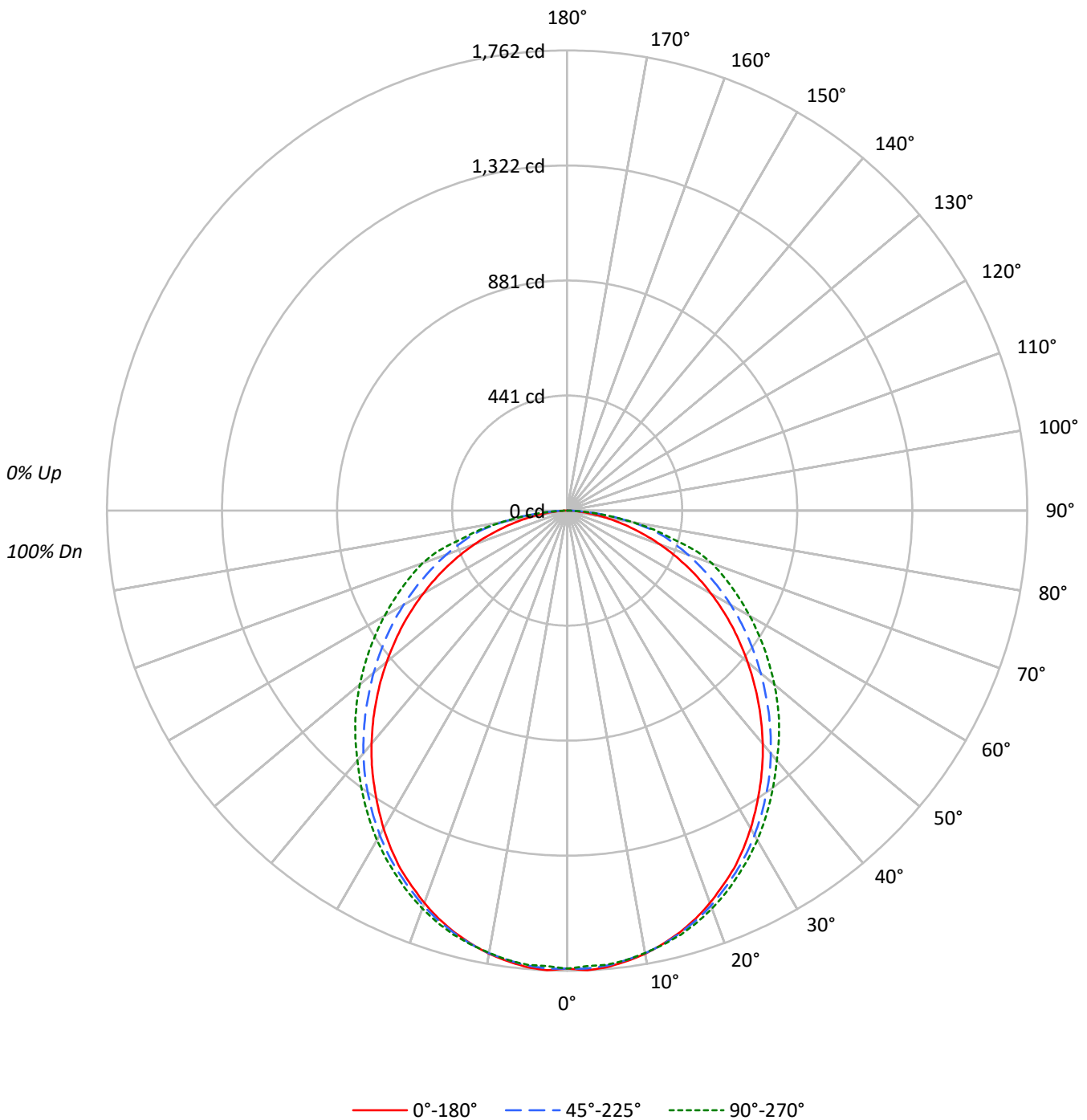
Input Watts (W): 40.176
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2359	2359	2359
5°	2371	2362	2358
10°	2354	2352	2350
15°	2328	2333	2342
20°	2289	2306	2322
25°	2245	2268	2292
30°	2184	2229	2264
35°	2115	2181	2226
40°	2047	2132	2194
45°	1969	2076	2184
50°	1889	2024	2169
55°	1807	1981	2163
60°	1713	1947	2173
65°	1611	1924	2217
70°	1484	1934	2321
75°	1315	2002	2162
80°	1099	1898	1948
85°	821	1518	1394



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.8	3.4
10°-20°	471.5	9.7
20°-30°	702.7	14.5
30°-40°	827.2	17.1
40°-50°	840.6	17.4
50°-60°	755.8	15.6
60°-70°	597.1	12.3
70°-80°	378.8	7.8
80°-90°	104.5	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°	1340.0	27.7
0°-40°	2167.2	44.7
0°-60°	3763.6	77.7
0°-90°	4844.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4844.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1754	1754	1754	1754	1754	
5°	1755	1741	1749	1746	1746	166
15°	1671	1663	1675	1680	1681	471
25°	1512	1510	1528	1538	1544	695
35°	1288	1296	1328	1343	1356	806
45°	1035	1049	1091	1123	1148	798
55°	770	790	845	899	922	688
65°	506	532	604	670	696	501
75°	253	297	385	419	416	269
85°	53	92	98	90	90	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1753.6	1753.6	1753.6	1753.6	1753.6
2.5°	1761.7	1748.8	1755.2	1752.0	1745.6
5°	1755.2	1740.7	1748.8	1745.6	1745.6
7.5°	1740.7	1729.4	1735.9	1734.3	1735.9
10°	1723.0	1711.7	1721.4	1721.4	1719.8
12.5°	1698.8	1689.1	1700.4	1700.4	1702.0
15°	1671.4	1663.4	1674.6	1679.5	1681.1
17.5°	1637.6	1629.5	1644.0	1648.9	1653.7
20°	1598.9	1595.7	1610.2	1615.0	1621.5
22.5°	1555.4	1555.4	1569.9	1576.3	1586.0
25°	1511.9	1510.2	1528.0	1537.6	1544.1
27.5°	1460.3	1461.9	1484.4	1494.1	1502.2
30°	1405.5	1408.7	1434.5	1445.8	1457.0
32.5°	1347.4	1353.9	1382.9	1395.8	1407.1
35°	1287.8	1295.9	1328.1	1342.6	1355.5
37.5°	1228.2	1239.5	1273.3	1287.8	1302.3
40°	1165.3	1175.0	1213.7	1231.4	1249.1
42.5°	1100.8	1113.7	1152.4	1178.2	1199.2
45°	1034.8	1049.3	1091.2	1123.4	1147.6
47.5°	968.7	988.0	1028.3	1071.8	1092.8
50°	902.6	921.9	967.1	1015.4	1036.4
52.5°	834.9	854.2	905.8	955.8	978.4
55°	770.4	789.8	844.6	899.4	921.9
57.5°	702.7	723.7	784.9	841.3	863.9
60°	636.7	657.6	723.7	783.3	807.5
62.5°	572.2	594.7	664.1	726.9	751.1
65°	506.1	531.9	604.4	670.5	696.3
67.5°	441.6	470.6	546.4	615.7	643.1
70°	377.2	411.0	491.6	562.5	589.9
72.5°	314.3	351.4	436.8	507.7	522.2
75°	253.0	296.6	385.2	419.1	415.8
77.5°	195.0	243.4	327.2	333.6	343.3
80°	141.8	195.0	245.0	257.9	251.4
82.5°	93.5	146.7	175.7	169.2	167.6
85°	53.2	91.9	98.3	90.3	90.3
87.5°	22.6	37.1	32.2	24.2	22.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)