

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: P261247

Luminaire Tested: **24CZ-LD5-45SE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261247
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-LD5-45SE-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: 4832.0 lumens
Efficiency: N/A
Efficacy: 132.2 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

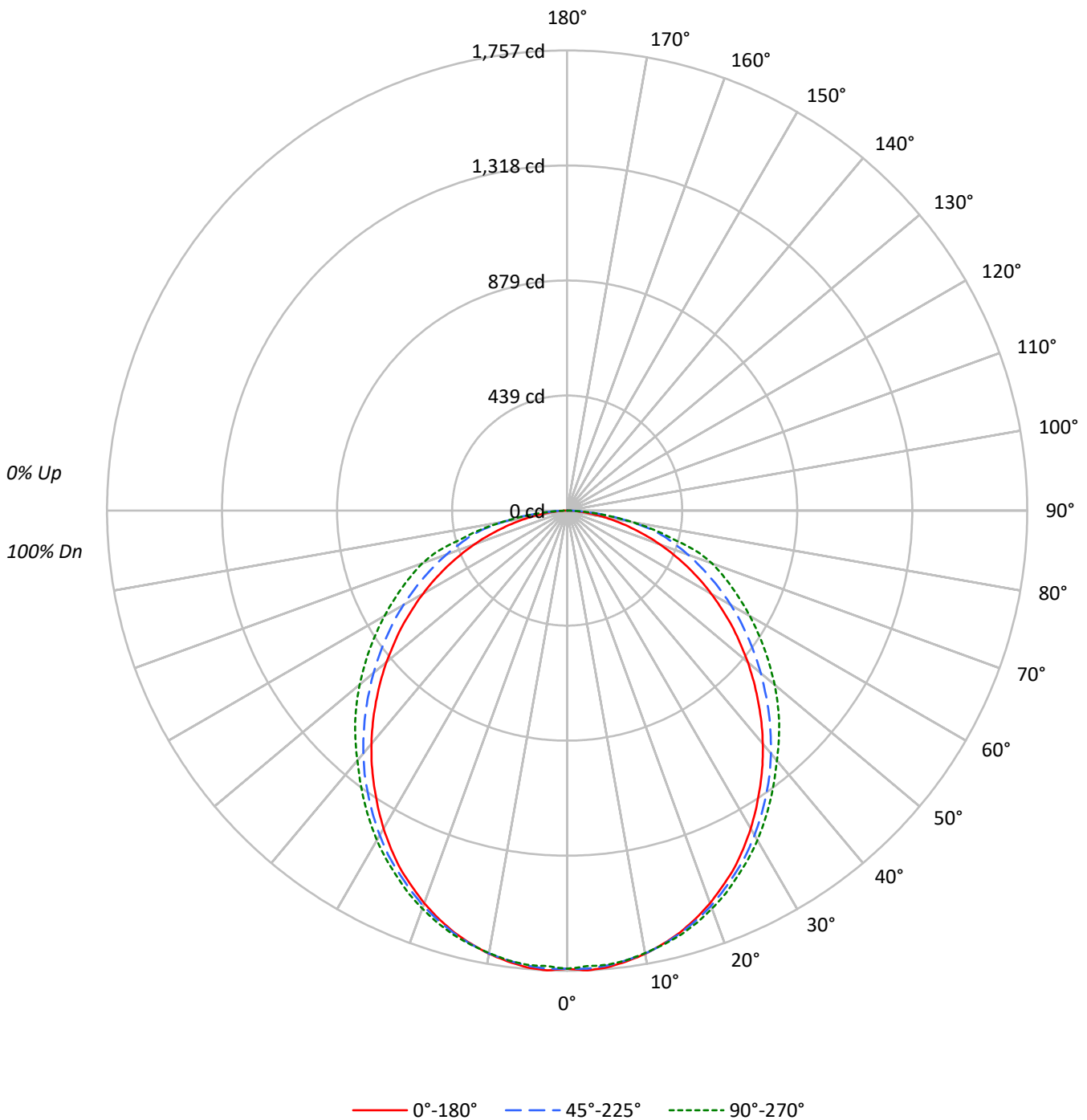
Input Watts (W): 36.549
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2354	2354	2354
5°	2365	2356	2352
10°	2348	2346	2344
15°	2322	2327	2336
20°	2284	2300	2316
25°	2239	2263	2287
30°	2178	2223	2258
35°	2110	2176	2221
40°	2042	2126	2188
45°	1964	2071	2178
50°	1885	2019	2164
55°	1803	1976	2157
60°	1709	1943	2168
65°	1607	1919	2211
70°	1480	1929	2315
75°	1312	1998	2156
80°	1096	1894	1943
85°	820	1514	1389



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.4	3.4
10°-20°	470.4	9.7
20°-30°	701.0	14.5
30°-40°	825.1	17.1
40°-50°	838.5	17.4
50°-60°	753.9	15.6
60°-70°	595.6	12.3
70°-80°	377.8	7.8
80°-90°	104.3	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°	1336.7	27.7
0°-40°	2161.9	44.7
0°-60°	3754.3	77.7
0°-90°	4832.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1749	1749	1749	1749	1749	
5°	1751	1736	1744	1741	1741	166
15°	1667	1659	1670	1675	1677	470
25°	1508	1506	1524	1534	1540	693
35°	1285	1293	1325	1339	1352	804
45°	1032	1047	1088	1121	1145	796
55°	768	788	842	897	920	686
65°	505	531	603	669	695	500
75°	252	296	384	418	415	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°	1749.3	1749.3	1749.3	1749.3	1749.3
2.5°	1757.3	1744.4	1750.9	1747.7	1741.2
5°	1750.9	1736.4	1744.4	1741.2	1741.2
7.5°	1736.4	1725.2	1731.6	1730.0	1731.6
10°	1718.7	1707.5	1717.1	1717.1	1715.5
12.5°	1694.6	1685.0	1696.2	1696.2	1697.8
15°	1667.3	1659.2	1670.5	1675.3	1676.9
17.5°	1633.5	1625.5	1639.9	1644.8	1649.6
20°	1594.9	1591.7	1606.2	1611.0	1617.4
22.5°	1551.5	1551.5	1566.0	1572.4	1582.1
25°	1508.1	1506.5	1524.2	1533.8	1540.3
27.5°	1456.7	1458.3	1480.8	1490.4	1498.5
30°	1402.0	1405.2	1430.9	1442.2	1453.4
32.5°	1344.1	1350.5	1379.5	1392.3	1403.6
35°	1284.6	1292.7	1324.8	1339.3	1352.1
37.5°	1225.1	1236.4	1270.2	1284.6	1299.1
40°	1162.4	1172.1	1210.7	1228.3	1246.0
42.5°	1098.1	1111.0	1149.6	1175.3	1196.2
45°	1032.2	1046.7	1088.5	1120.6	1144.7
47.5°	966.3	985.6	1025.8	1069.2	1090.1
50°	900.4	919.7	964.7	1012.9	1033.8
52.5°	832.8	852.1	903.6	953.4	975.9
55°	768.5	787.8	842.5	897.1	919.7
57.5°	701.0	721.9	783.0	839.3	861.8
60°	635.1	656.0	721.9	781.4	805.5
62.5°	570.8	593.3	662.4	725.1	749.2
65°	504.8	530.6	602.9	668.8	694.6
67.5°	440.5	469.5	545.0	614.2	641.5
70°	376.2	410.0	490.4	561.1	588.5
72.5°	313.5	350.5	435.7	506.5	520.9
75°	252.4	295.8	384.3	418.0	414.8
77.5°	194.5	242.8	326.4	332.8	342.5
80°	141.5	194.5	244.4	257.2	250.8
82.5°	93.3	146.3	175.2	168.8	167.2
85°	53.1	91.6	98.1	90.0	90.0
87.5°	22.5	37.0	32.2	24.1	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)