

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: P276242

Luminaire Tested: **24CZ2-65HE-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276242
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-65HE-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5290.0 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

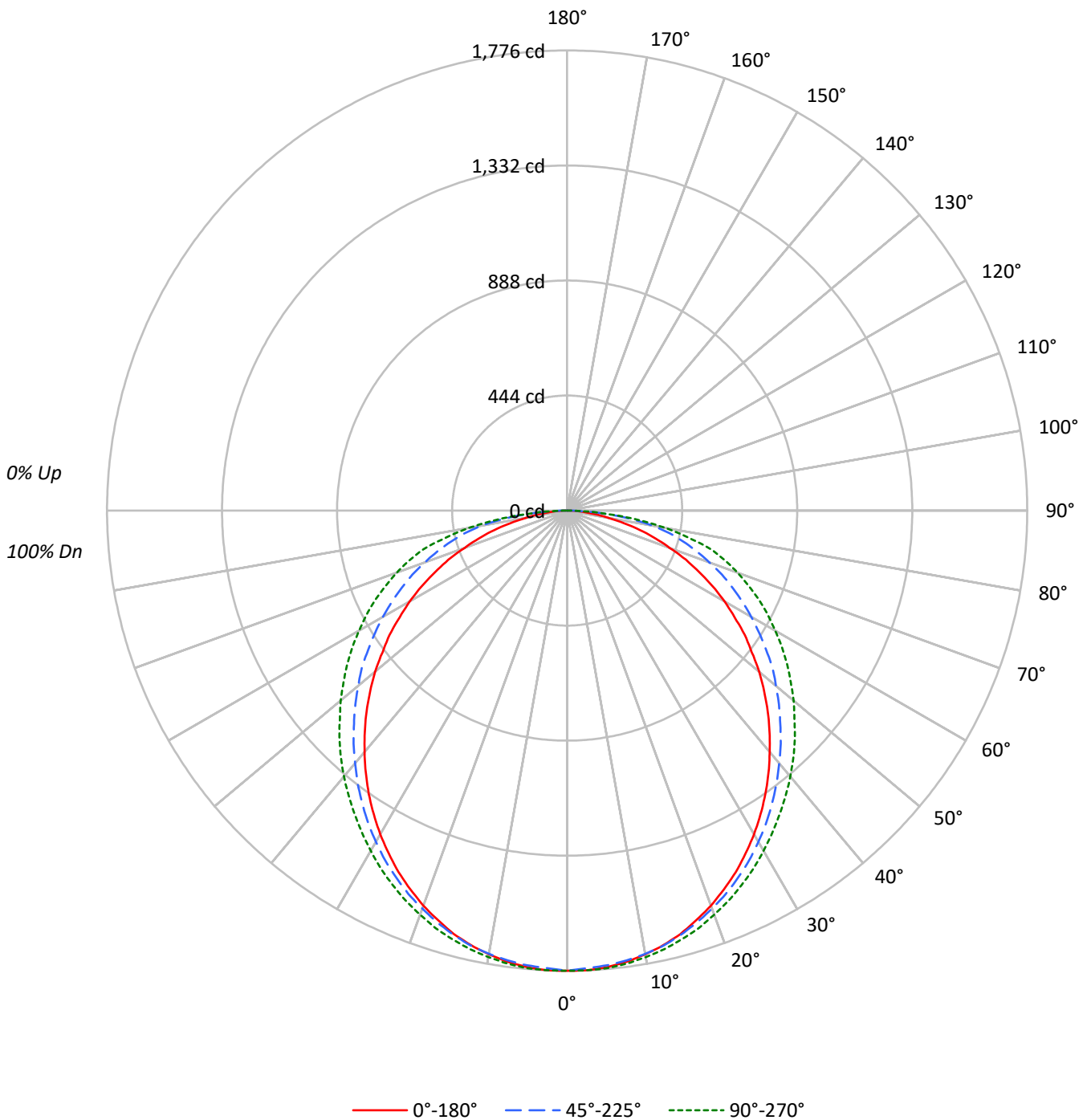
Input Watts (W): 49.011
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2390	2390	2390
5°	2389	2380	2394
10°	2376	2374	2390
15°	2356	2361	2386
20°	2323	2341	2376
25°	2286	2320	2367
30°	2241	2293	2356
35°	2192	2265	2349
40°	2136	2236	2354
45°	2083	2214	2365
50°	2025	2202	2387
55°	1963	2199	2431
60°	1886	2209	2494
65°	1787	2243	2602
70°	1660	2299	2750
75°	1514	2414	2983
80°	1245	2599	2982
85°	954	2399	2563



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.0	3.2
10°-20°	479.6	9.1
20°-30°	721.7	13.6
30°-40°	864.8	16.3
40°-50°	901.2	17.0
50°-60°	838.5	15.9
60°-70°	690.6	13.1
70°-80°	470.3	8.9
80°-90°	155.3	2.9
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°	1369.2	25.9
0°-40°	2234.0	42.2
0°-60°	3973.8	75.1
0°-90°	5290.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5290.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1776	1776	1776	1776	1776	
5°	1769	1769	1762	1771	1773	168
15°	1691	1693	1695	1711	1713	476
25°	1540	1547	1562	1589	1594	709
35°	1335	1351	1379	1416	1430	834
45°	1095	1118	1164	1222	1243	844
55°	837	865	938	1012	1036	746
65°	561	609	704	787	817	557
75°	291	357	464	547	574	307
85°	62	120	155	166	166	77
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1776.1	1776.1	1776.1	1776.1	1776.1
2.5°	1776.1	1776.1	1767.3	1776.1	1776.1
5°	1769.0	1769.0	1762.0	1770.8	1772.6
7.5°	1756.7	1758.5	1751.4	1762.0	1763.8
10°	1739.0	1740.8	1737.3	1747.9	1749.6
12.5°	1717.8	1719.6	1719.6	1732.0	1733.7
15°	1691.4	1693.1	1694.9	1710.8	1712.6
17.5°	1657.8	1663.1	1666.6	1686.1	1689.6
20°	1622.5	1627.8	1634.9	1656.1	1659.6
22.5°	1581.9	1589.0	1601.3	1624.3	1629.6
25°	1539.5	1546.6	1562.5	1589.0	1594.3
27.5°	1491.9	1502.5	1521.9	1550.1	1557.2
30°	1442.4	1453.0	1476.0	1506.0	1516.6
32.5°	1389.5	1403.6	1430.1	1463.6	1474.2
35°	1334.7	1350.6	1378.9	1415.9	1430.1
37.5°	1276.5	1294.1	1327.7	1368.3	1385.9
40°	1216.4	1237.6	1272.9	1320.6	1340.0
42.5°	1156.4	1175.8	1220.0	1271.2	1292.4
45°	1094.6	1117.6	1163.5	1221.7	1242.9
47.5°	1031.1	1054.0	1108.7	1170.5	1190.0
50°	967.5	990.5	1052.2	1117.6	1140.5
52.5°	898.6	928.7	999.3	1064.6	1087.6
55°	836.9	865.1	937.5	1011.6	1036.4
57.5°	766.2	799.8	879.2	956.9	983.4
60°	700.9	736.2	821.0	900.4	926.9
62.5°	633.8	672.7	762.7	843.9	873.9
65°	561.4	609.1	704.4	787.4	817.4
67.5°	496.1	545.5	646.2	730.9	757.4
70°	422.0	482.0	584.4	669.1	699.1
72.5°	358.4	418.4	526.1	609.1	639.1
75°	291.3	356.6	464.3	547.3	573.8
77.5°	224.2	296.6	404.3	467.9	476.7
80°	160.7	236.6	335.4	372.5	384.9
82.5°	113.0	181.8	247.2	271.9	279.0
85°	61.8	120.1	155.4	166.0	166.0
87.5°	26.5	51.2	61.8	63.6	65.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)