

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: P276223

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276223
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: 24CZ2-55HE-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4277.8 lumens
Efficiency: N/A
Efficacy: 107.7 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

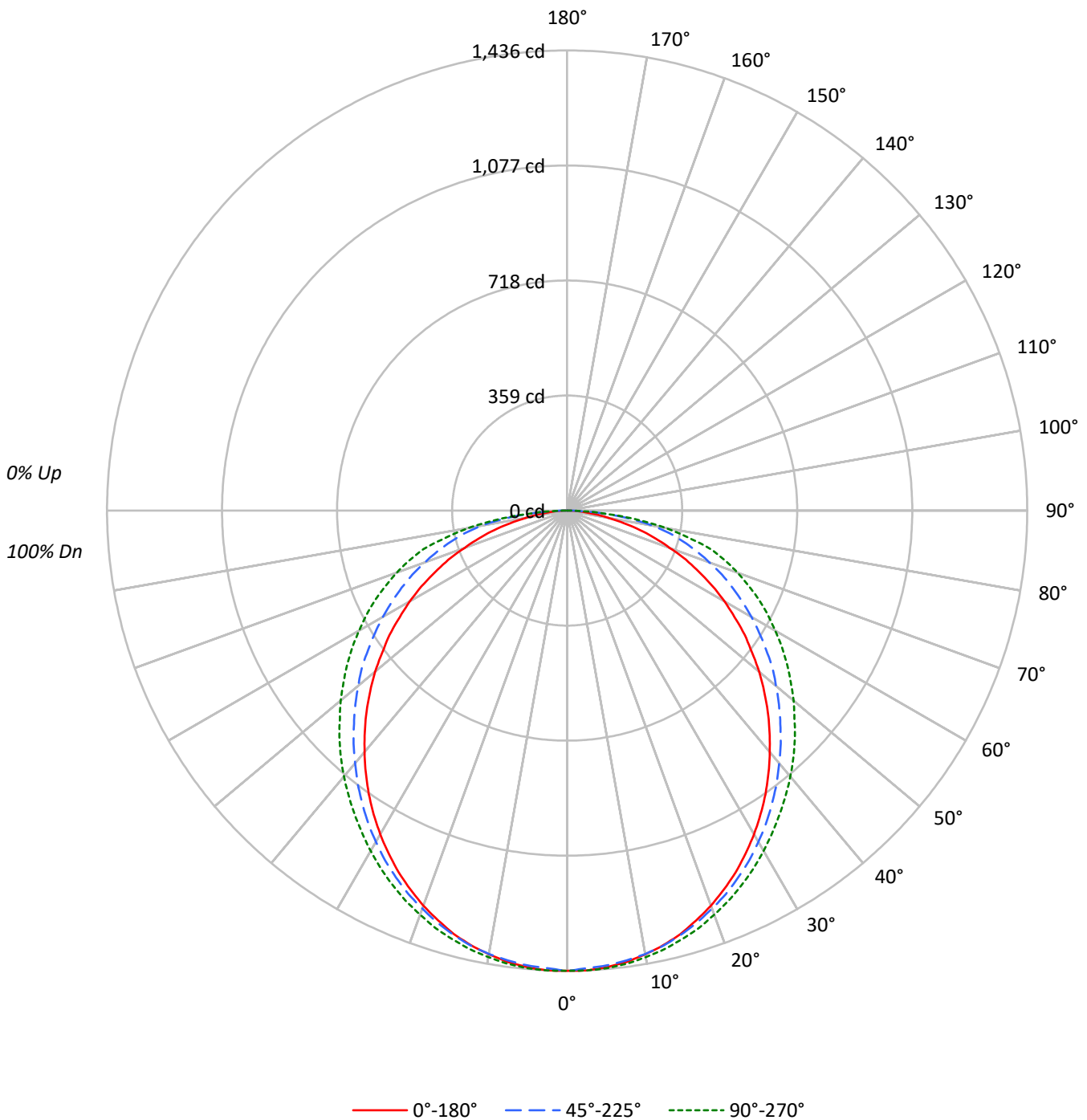
Input Watts (W): 39.711
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P276223

CATALOG NUMBER: 24CZ2-55HE-UNV-L92765-W2A1-U-3000K

Luminous Intensity Polar Plot





TEST NUMBER: P276223

CATALOG NUMBER: 24CZ2-55HE-UNV-L92765-W2A1-U-3000K

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°	1933	1933	1933
5°	1932	1924	1936
10°	1921	1919	1933
15°	1905	1909	1929
20°	1879	1893	1922
25°	1848	1876	1914
30°	1812	1854	1905
35°	1773	1831	1899
40°	1728	1808	1903
45°	1684	1790	1913
50°	1638	1781	1931
55°	1587	1778	1966
60°	1525	1787	2017
65°	1445	1814	2104
70°	1342	1859	2224
75°	1225	1952	2412
80°	1007	2102	2411
85°	772	1939	2072



TEST NUMBER: P276223

CATALOG NUMBER: 24CZ2-55HE-UNV-L92765-W2A1-U-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	3.2
10°-20°	387.8	9.1
20°-30°	583.6	13.6
30°-40°	699.4	16.3
40°-50°	728.8	17.0
50°-60°	678.1	15.9
60°-70°	558.5	13.1
70°-80°	380.4	8.9
80°-90°	125.6	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°	1107.2	25.9
0°-40°	1806.6	42.2
0°-60°	3213.4	75.1
0°-90°	4277.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4277.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1430	1430	1425	1432	1433	136
15°	1368	1369	1371	1383	1385	385
25°	1245	1251	1264	1285	1289	573
35°	1079	1092	1115	1145	1156	675
45°	885	904	941	988	1005	683
55°	677	700	758	818	838	603
65°	454	493	570	637	661	451
75°	236	288	376	443	464	248
85°	50	97	126	134	134	62
90°	0	0	0	0	0	



TEST NUMBER: P276223

CATALOG NUMBER: 24CZ2-55HE-UNV-L92765-W2A1-U-3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1436.3	1436.3	1436.3	1436.3	1436.3
2.5°	1436.3	1436.3	1429.1	1436.3	1436.3
5°	1430.5	1430.5	1424.8	1432.0	1433.4
7.5°	1420.6	1422.0	1416.3	1424.8	1426.3
10°	1406.3	1407.7	1404.9	1413.4	1414.8
12.5°	1389.1	1390.6	1390.6	1400.6	1402.0
15°	1367.7	1369.2	1370.6	1383.4	1384.9
17.5°	1340.6	1344.9	1347.7	1363.4	1366.3
20°	1312.1	1316.3	1322.0	1339.2	1342.0
22.5°	1279.2	1284.9	1294.9	1313.5	1317.8
25°	1244.9	1250.7	1263.5	1284.9	1289.2
27.5°	1206.4	1215.0	1230.7	1253.5	1259.2
30°	1166.4	1175.0	1193.6	1217.8	1226.4
32.5°	1123.6	1135.0	1156.4	1183.6	1192.1
35°	1079.3	1092.2	1115.0	1145.0	1156.4
37.5°	1032.2	1046.5	1073.6	1106.5	1120.7
40°	983.7	1000.8	1029.4	1067.9	1083.6
42.5°	935.1	950.8	986.5	1027.9	1045.1
45°	885.2	903.7	940.9	988.0	1005.1
47.5°	833.8	852.3	896.6	946.6	962.3
50°	782.4	800.9	850.9	903.7	922.3
52.5°	726.7	751.0	808.1	860.9	879.5
55°	676.7	699.6	758.1	818.1	838.1
57.5°	619.6	646.7	711.0	773.8	795.2
60°	566.8	595.3	663.9	728.1	749.5
62.5°	512.5	544.0	616.8	682.4	706.7
65°	454.0	492.6	569.7	636.8	661.0
67.5°	401.2	441.2	522.5	591.1	612.5
70°	341.2	389.8	472.6	541.1	565.4
72.5°	289.8	338.4	425.5	492.6	516.8
75°	235.6	288.4	375.5	442.6	464.0
77.5°	181.3	239.9	326.9	378.3	385.5
80°	129.9	191.3	271.3	301.2	311.2
82.5°	91.4	147.1	199.9	219.9	225.6
85°	50.0	97.1	125.6	134.2	134.2
87.5°	21.4	41.4	50.0	51.4	52.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)