

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: P276230

Luminaire Tested: **24CZ2-55HE-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276230
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4982.6 lumens
Efficiency: N/A
Efficacy: 118.8 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

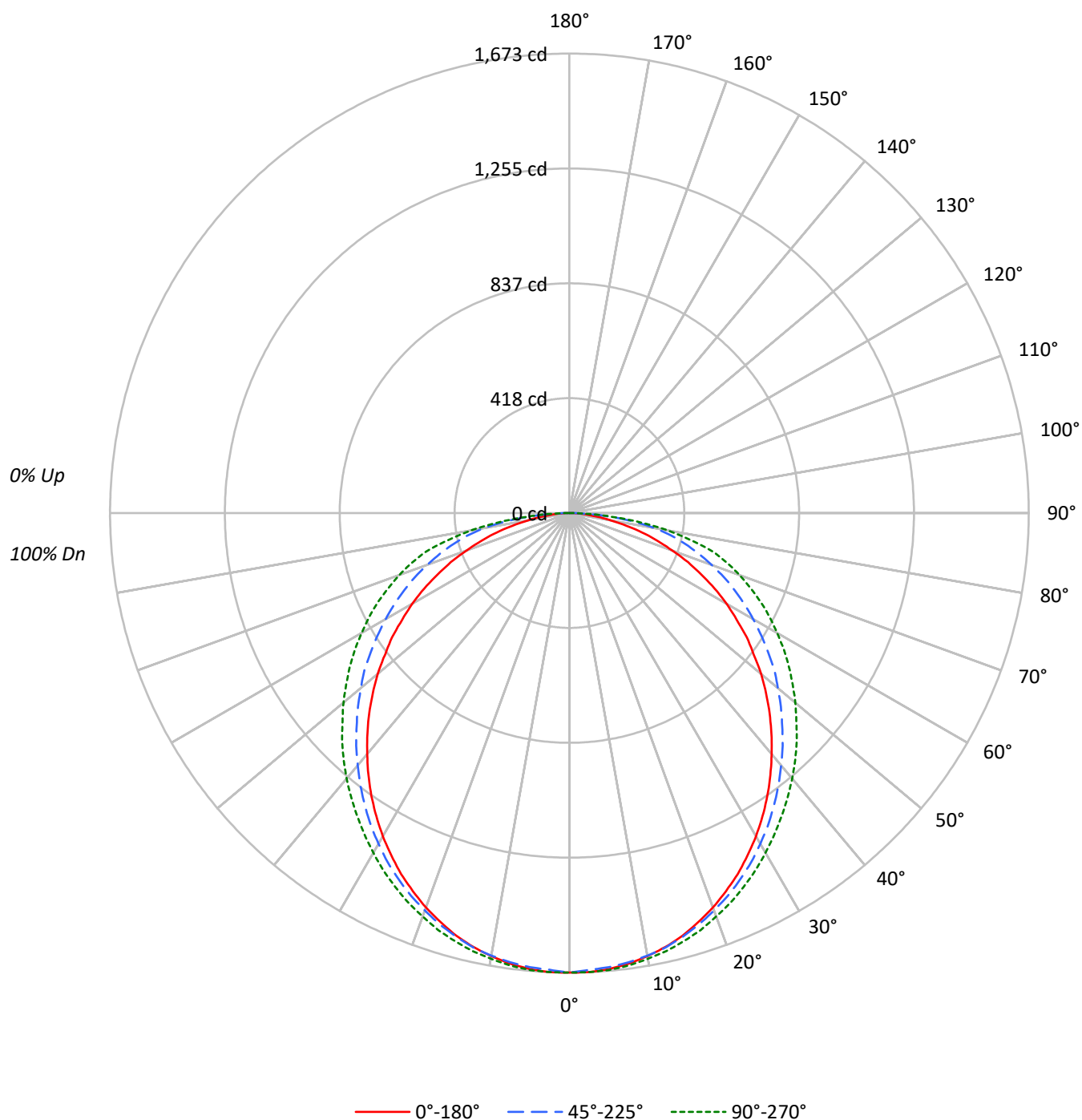
Input Watts (W): 41.943
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	108	103	98	94	105	100	96	92		96	93	89		92	89	87		89	86	84
2	98	89	82	76	95	87	80	75		83	78	73		80	75	71		77	73	70
3	89	78	69	62	86	76	68	62		73	66	61		70	64	60		68	63	58
4	81	69	59	52	79	67	59	52		65	57	51		62	56	51		60	55	50
5	74	61	52	45	72	60	51	45		58	50	44		56	49	44		54	48	43
6	69	55	46	39	67	54	45	39		52	44	39		50	44	38		49	43	38
7	64	50	41	35	62	49	40	34		47	40	34		46	39	34		45	38	34
8	59	45	37	31	58	45	36	31		43	36	30		42	35	30		41	35	30
9	55	42	33	28	54	41	33	28		40	33	27		39	32	27		38	32	27
10	52	38	30	25	51	38	30	25		37	30	25		36	29	25		35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2251	2251	2251
5°	2250	2242	2255
10°	2238	2236	2251
15°	2219	2224	2247
20°	2188	2205	2238
25°	2153	2185	2229
30°	2111	2160	2219
35°	2065	2133	2213
40°	2012	2106	2217
45°	1962	2085	2228
50°	1908	2075	2249
55°	1849	2071	2290
60°	1777	2081	2349
65°	1684	2112	2451
70°	1563	2165	2591
75°	1426	2273	2809
80°	1172	2448	2809
85°	898	2259	2413



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.2	3.2
10°-20°	451.7	9.1
20°-30°	679.7	13.6
30°-40°	814.6	16.3
40°-50°	848.9	17.0
50°-60°	789.8	15.9
60°-70°	650.5	13.1
70°-80°	443.0	8.9
80°-90°	146.3	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°	1289.6	25.9
0°-40°	2104.2	42.2
0°-60°	3742.8	75.1
0°-90°	4982.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4982.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1673	1673	1673	1673	1673	
5°	1666	1666	1660	1668	1670	158
15°	1593	1595	1596	1611	1613	449
25°	1450	1457	1472	1497	1502	668
35°	1257	1272	1299	1334	1347	786
45°	1031	1053	1096	1151	1171	795
55°	788	815	883	953	976	703
65°	529	574	664	742	770	525
75°	274	336	437	516	540	289
85°	58	113	146	156	156	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1672.9	1672.9	1672.9	1672.9	1672.9
2.5°	1672.9	1672.9	1664.6	1672.9	1672.9
5°	1666.2	1666.2	1659.6	1667.9	1669.6
7.5°	1654.6	1656.3	1649.6	1659.6	1661.2
10°	1638.0	1639.6	1636.3	1646.3	1647.9
12.5°	1618.0	1619.7	1619.7	1631.3	1633.0
15°	1593.1	1594.7	1596.4	1611.4	1613.0
17.5°	1561.5	1566.5	1569.8	1588.1	1591.4
20°	1528.2	1533.2	1539.9	1559.8	1563.1
22.5°	1490.0	1496.6	1508.3	1529.9	1534.9
25°	1450.1	1456.7	1471.7	1496.6	1501.6
27.5°	1405.2	1415.1	1433.4	1460.0	1466.7
30°	1358.6	1368.6	1390.2	1418.5	1428.4
32.5°	1308.7	1322.0	1347.0	1378.5	1388.5
35°	1257.2	1272.1	1298.7	1333.7	1347.0
37.5°	1202.3	1218.9	1250.5	1288.8	1305.4
40°	1145.7	1165.7	1199.0	1243.9	1262.1
42.5°	1089.2	1107.5	1149.1	1197.3	1217.2
45°	1031.0	1052.6	1095.9	1150.7	1170.7
47.5°	971.1	992.8	1044.3	1102.5	1120.8
50°	911.3	932.9	991.1	1052.6	1074.2
52.5°	846.4	874.7	941.2	1002.7	1024.4
55°	788.2	814.8	883.0	952.8	976.1
57.5°	721.7	753.3	828.1	901.3	926.2
60°	660.2	693.4	773.3	848.1	873.0
62.5°	597.0	633.6	718.4	794.9	823.1
65°	528.8	573.7	663.5	741.7	769.9
67.5°	467.3	513.8	608.6	688.4	713.4
70°	397.4	454.0	550.4	630.2	658.5
72.5°	337.6	394.1	495.5	573.7	602.0
75°	274.4	335.9	437.3	515.5	540.4
77.5°	211.2	279.4	380.8	440.7	449.0
80°	151.3	222.8	316.0	350.9	362.5
82.5°	106.4	171.3	232.8	256.1	262.7
85°	58.2	113.1	146.3	156.3	156.3
87.5°	24.9	48.2	58.2	59.9	61.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)