

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: P276935

Luminaire Tested: **24CZ2-55HE-RDP-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1808-918-19)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-55HE-RDP-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3690.9 lumens
Efficiency: N/A
Efficacy: 88.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.3 / 1.41
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

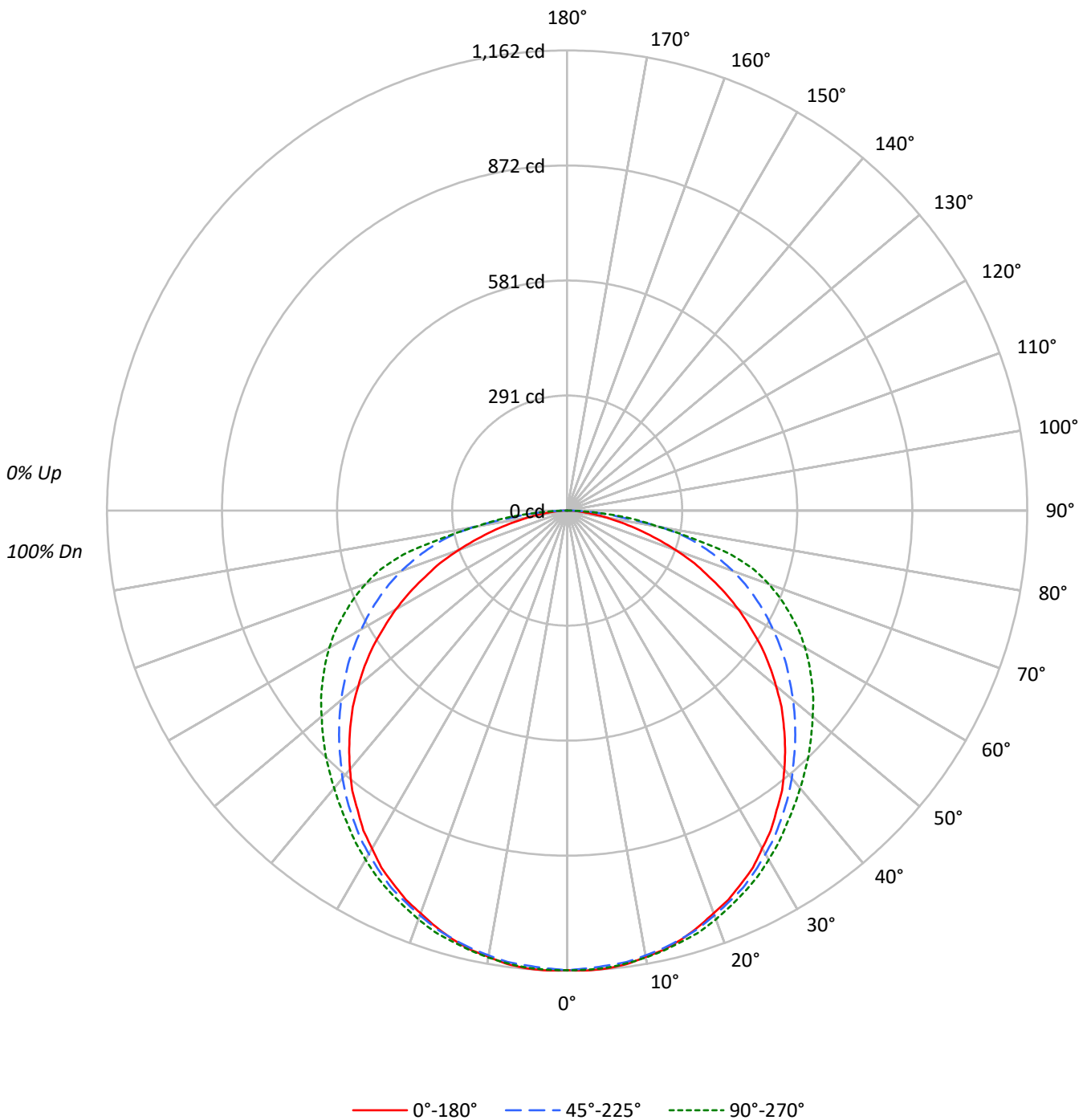
Input Watts (W): 41.85
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	88	86	84	82
2	97	89	81	75	95	87	80	74	83	77	72	80	75	71	77	73	69	67
3	88	77	68	62	86	76	67	61	72	66	60	70	64	59	67	62	58	56
4	81	68	59	52	78	67	58	51	64	57	51	62	55	50	59	54	49	47
5	74	60	51	44	72	59	51	44	57	49	43	55	48	43	53	47	42	40
6	68	54	45	38	66	53	45	38	51	44	38	50	43	37	48	42	37	35
7	63	49	40	34	61	48	40	34	47	39	33	45	38	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	41	34	29	40	34	29	27
9	55	41	33	27	53	40	32	27	39	32	27	38	31	26	37	31	26	24
10	51	38	30	24	50	37	29	24	36	29	24	35	29	24	34	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1562	1562	1562
5°	1568	1558	1565
10°	1563	1558	1566
15°	1561	1558	1568
20°	1549	1557	1573
25°	1544	1560	1576
30°	1530	1556	1581
35°	1516	1552	1588
40°	1498	1550	1608
45°	1474	1550	1644
50°	1441	1560	1694
55°	1404	1585	1769
60°	1345	1616	1867
65°	1259	1673	1982
70°	1145	1750	2132
75°	971	1847	2227
80°	766	1858	1801
85°	565	1413	1582



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.1	3.0
10°-20°	316.9	8.6
20°-30°	484.6	13.1
30°-40°	592.4	16.0
40°-50°	631.3	17.1
50°-60°	603.6	16.4
60°-70°	511.4	13.9
70°-80°	343.7	9.3
80°-90°	96.9	2.6
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°	911.5	24.7
0°-40°	1503.9	40.7
0°-60°	2738.9	74.2
0°-90°	3690.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3690.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1161	1161	1161	1161	1161	
5°	1161	1159	1153	1159	1159	110
15°	1120	1120	1119	1128	1126	316
25°	1040	1044	1051	1060	1062	479
35°	923	930	945	963	967	578
45°	774	787	815	849	864	597
55°	599	621	676	729	754	533
65°	395	436	525	595	622	393
75°	187	254	355	416	428	200
85°	37	75	92	99	102	45
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1160.7	1160.7	1160.7	1160.7	1160.7
2.5°	1162.5	1162.5	1157.0	1160.7	1160.7
5°	1160.7	1158.8	1153.3	1158.8	1158.8
7.5°	1155.2	1153.3	1149.7	1155.2	1153.3
10°	1144.2	1144.2	1140.5	1146.0	1146.0
12.5°	1135.0	1133.2	1131.4	1138.7	1136.9
15°	1120.4	1120.4	1118.6	1127.7	1125.9
17.5°	1102.1	1103.9	1105.7	1113.1	1114.9
20°	1081.9	1085.6	1087.4	1098.4	1098.4
22.5°	1063.6	1065.5	1069.1	1080.1	1080.1
25°	1039.8	1043.5	1050.8	1060.0	1061.8
27.5°	1016.0	1017.9	1027.0	1039.8	1041.7
30°	984.9	990.4	1001.4	1016.0	1017.9
32.5°	957.5	963.0	975.8	990.4	994.1
35°	922.7	930.0	944.6	963.0	966.6
37.5°	891.6	897.0	915.4	935.5	941.0
40°	853.1	864.1	882.4	906.2	915.4
42.5°	814.7	825.6	847.6	878.7	889.7
45°	774.4	787.2	814.7	849.4	864.1
47.5°	734.1	748.8	779.9	820.2	836.6
50°	688.3	706.7	745.1	790.9	809.2
52.5°	644.4	666.4	708.5	759.7	783.5
55°	598.6	620.6	675.5	728.6	754.3
57.5°	547.4	576.7	637.1	697.5	725.0
60°	499.8	527.2	600.5	666.4	693.8
62.5°	448.5	485.1	563.9	633.4	660.9
65°	395.4	435.7	525.4	595.0	622.4
67.5°	347.8	391.8	487.0	556.5	584.0
70°	291.1	346.0	444.9	514.4	541.9
72.5°	238.0	298.4	400.9	468.7	494.3
75°	186.7	254.5	355.2	415.6	428.4
77.5°	139.1	210.5	307.6	333.2	324.0
80°	98.9	168.4	239.8	227.0	232.5
82.5°	64.1	128.1	148.3	168.4	173.9
85°	36.6	75.1	91.5	98.9	102.5
87.5°	16.5	27.5	36.6	36.6	34.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)