

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: P277088

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P277088
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: 24CZ2-65HE-RDP-UNV-L92765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 90 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3946.6 lumens
Efficiency: N/A
Efficacy: 77.0 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

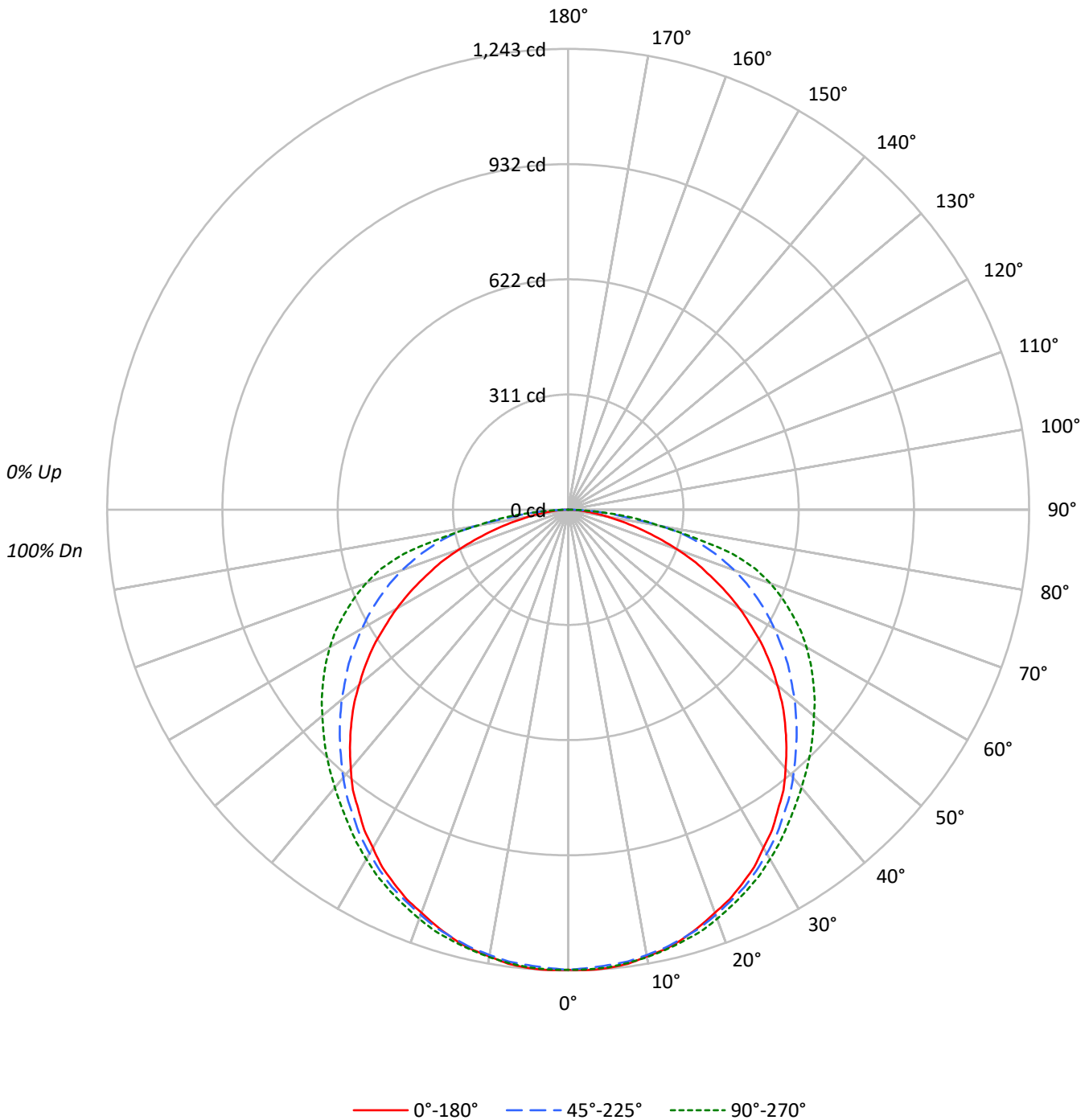
Input Watts (W): 51.243
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1670	1670	1670
5°	1676	1666	1674
10°	1672	1666	1674
15°	1669	1666	1677
20°	1656	1665	1682
25°	1651	1668	1686
30°	1636	1664	1691
35°	1621	1659	1698
40°	1602	1657	1719
45°	1576	1658	1758
50°	1541	1668	1811
55°	1502	1694	1892
60°	1438	1728	1996
65°	1346	1789	2119
70°	1225	1871	2279
75°	1038	1974	2381
80°	819	1987	1926
85°	605	1511	1692



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	3.0
10°-20°	338.8	8.6
20°-30°	518.1	13.1
30°-40°	633.4	16.0
40°-50°	675.1	17.1
50°-60°	645.5	16.4
60°-70°	546.8	13.9
70°-80°	367.5	9.3
80°-90°	103.7	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°	974.7	24.7
0°-40°	1608.1	40.7
0°-60°	2928.7	74.2
0°-90°	3946.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3946.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1241	1239	1233	1239	1239	118
15°	1198	1198	1196	1206	1204	338
25°	1112	1116	1124	1133	1135	512
35°	987	994	1010	1030	1034	618
45°	828	842	871	908	924	639
55°	640	664	722	779	806	570
65°	423	466	562	636	666	420
75°	200	272	380	444	458	214
85°	39	80	98	106	110	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1241.1	1241.1	1241.1	1241.1	1241.1
2.5°	1243.1	1243.1	1237.2	1241.1	1241.1
5°	1241.1	1239.1	1233.3	1239.1	1239.1
7.5°	1235.2	1233.3	1229.4	1235.2	1233.3
10°	1223.5	1223.5	1219.6	1225.4	1225.4
12.5°	1213.7	1211.7	1209.8	1217.6	1215.7
15°	1198.0	1198.0	1196.1	1205.9	1203.9
17.5°	1178.5	1180.4	1182.4	1190.2	1192.2
20°	1156.9	1160.8	1162.8	1174.5	1174.5
22.5°	1137.3	1139.3	1143.2	1155.0	1155.0
25°	1111.9	1115.8	1123.6	1133.4	1135.4
27.5°	1086.5	1088.4	1098.2	1111.9	1113.9
30°	1053.2	1059.0	1070.8	1086.5	1088.4
32.5°	1023.8	1029.7	1043.4	1059.0	1063.0
35°	986.6	994.4	1010.1	1029.7	1033.6
37.5°	953.3	959.2	978.8	1000.3	1006.2
40°	912.2	924.0	943.5	969.0	978.8
42.5°	871.1	882.9	906.4	939.6	951.4
45°	828.1	841.8	871.1	908.3	924.0
47.5°	785.0	800.6	833.9	877.0	894.6
50°	736.0	755.6	796.7	845.7	865.2
52.5°	689.1	712.6	757.6	812.4	837.8
55°	640.1	663.6	722.3	779.1	806.5
57.5°	585.3	616.6	681.2	745.8	775.2
60°	534.4	563.8	642.1	712.6	741.9
62.5°	479.6	518.8	602.9	677.3	706.7
65°	422.8	465.9	561.8	636.2	665.6
67.5°	371.9	418.9	520.7	595.1	624.5
70°	311.3	370.0	475.7	550.1	579.4
72.5°	254.5	319.1	428.7	501.1	528.5
75°	199.7	272.1	379.8	444.4	458.1
77.5°	148.8	225.1	328.9	356.3	346.5
80°	105.7	180.1	256.4	242.7	248.6
82.5°	68.5	137.0	158.6	180.1	186.0
85°	39.2	80.3	97.9	105.7	109.6
87.5°	17.6	29.4	39.2	39.2	37.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)