

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: P276950

Luminaire Tested: **24CZ2-65HE-RDP-UNV-L82765-W2A1-U-5000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276950
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-L82765-W2A1-U-5000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RDP LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4281.9 lumens
Efficiency: N/A
Efficacy: 85.6 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

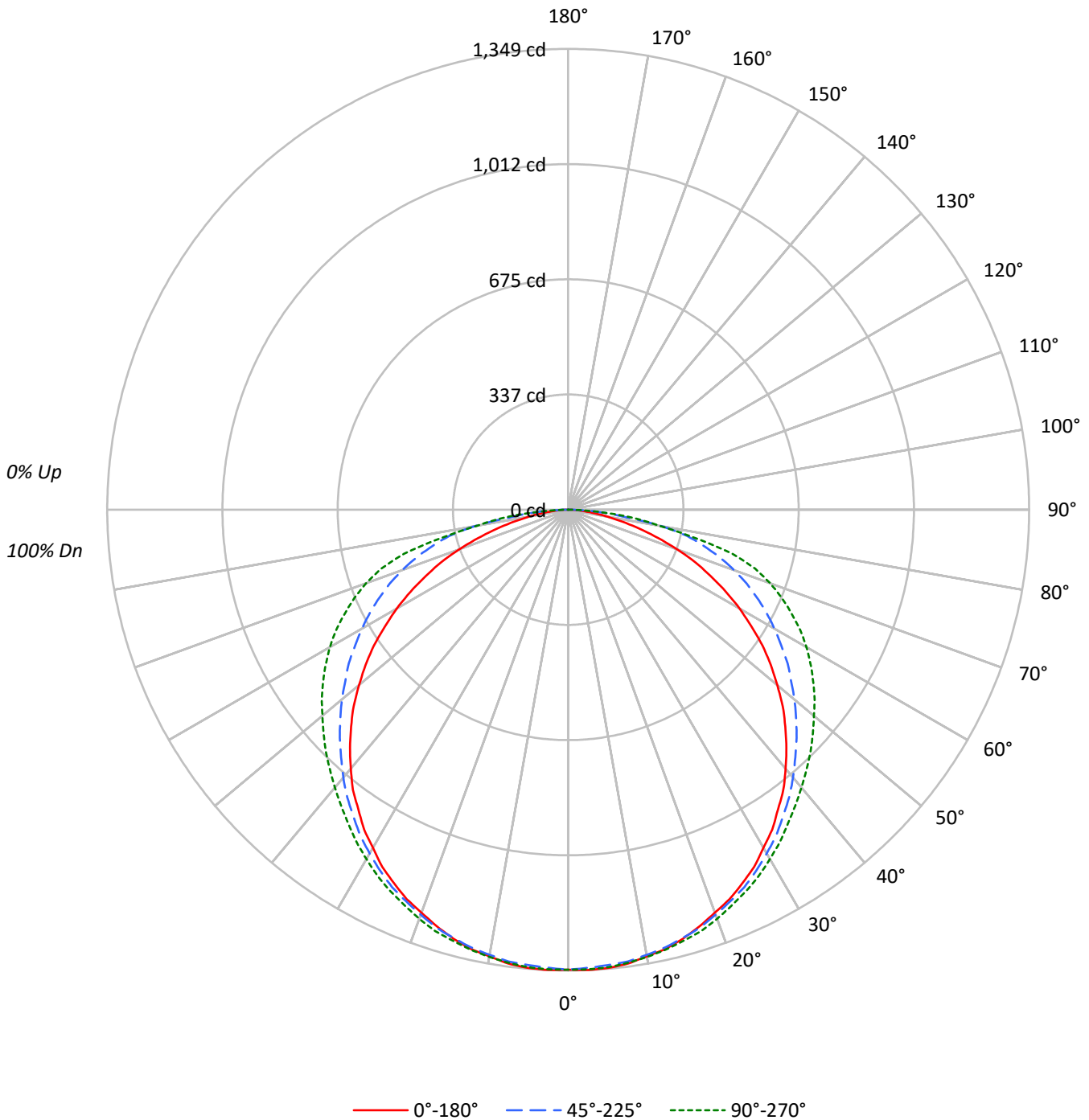
Input Watts (W): 50.034
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1812	1812	1812
5°	1819	1807	1816
10°	1814	1808	1817
15°	1811	1808	1819
20°	1797	1806	1825
25°	1791	1810	1829
30°	1775	1805	1835
35°	1758	1800	1842
40°	1738	1798	1865
45°	1709	1798	1908
50°	1672	1809	1965
55°	1629	1838	2053
60°	1560	1875	2166
65°	1461	1941	2299
70°	1328	2030	2473
75°	1126	2142	2584
80°	889	2156	2090
85°	656	1639	1836



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.0
10°-20°	367.6	8.6
20°-30°	562.2	13.1
30°-40°	687.2	16.0
40°-50°	732.5	17.1
50°-60°	700.3	16.4
60°-70°	593.3	13.9
70°-80°	398.7	9.3
80°-90°	112.5	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°	1057.5	24.7
0°-40°	1744.7	40.7
0°-60°	3177.5	74.2
0°-90°	4281.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4281.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1346	1346	1346	1346	1346	
5°	1346	1344	1338	1344	1344	128
15°	1300	1300	1298	1308	1306	366
25°	1206	1211	1219	1230	1232	556
35°	1070	1079	1096	1117	1121	671
45°	898	913	945	986	1002	693
55°	694	720	784	845	875	619
65°	459	506	610	690	722	455
75°	217	295	412	482	497	232
85°	42	87	106	115	119	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1346.5	1346.5	1346.5	1346.5	1346.5
2.5°	1348.7	1348.7	1342.3	1346.5	1346.5
5°	1346.5	1344.4	1338.0	1344.4	1344.4
7.5°	1340.2	1338.0	1333.8	1340.2	1338.0
10°	1327.4	1327.4	1323.2	1329.6	1329.6
12.5°	1316.8	1314.7	1312.6	1321.1	1318.9
15°	1299.8	1299.8	1297.7	1308.3	1306.2
17.5°	1278.6	1280.7	1282.8	1291.3	1293.4
20°	1255.2	1259.5	1261.6	1274.3	1274.3
22.5°	1234.0	1236.1	1240.3	1253.1	1253.1
25°	1206.4	1210.6	1219.1	1229.7	1231.9
27.5°	1178.8	1180.9	1191.5	1206.4	1208.5
30°	1142.7	1149.0	1161.8	1178.8	1180.9
32.5°	1110.8	1117.2	1132.0	1149.0	1153.3
35°	1070.4	1078.9	1095.9	1117.2	1121.4
37.5°	1034.3	1040.7	1061.9	1085.3	1091.7
40°	989.7	1002.5	1023.7	1051.3	1061.9
42.5°	945.1	957.9	983.4	1019.5	1032.2
45°	898.4	913.3	945.1	985.5	1002.5
47.5°	851.7	868.7	904.8	951.5	970.6
50°	798.6	819.8	864.4	917.5	938.8
52.5°	747.6	773.1	821.9	881.4	909.0
55°	694.5	720.0	783.7	845.3	875.0
57.5°	635.0	669.0	739.1	809.2	841.1
60°	579.8	611.7	696.6	773.1	805.0
62.5°	520.4	562.8	654.2	734.9	766.7
65°	458.8	505.5	609.6	690.3	722.1
67.5°	403.5	454.5	565.0	645.7	677.5
70°	337.7	401.4	516.1	596.8	628.7
72.5°	276.1	346.2	465.1	543.7	573.4
75°	216.6	295.2	412.0	482.1	497.0
77.5°	161.4	244.2	356.8	386.5	375.9
80°	114.7	195.4	278.2	263.4	269.7
82.5°	74.3	148.7	172.0	195.4	201.8
85°	42.5	87.1	106.2	114.7	118.9
87.5°	19.1	31.9	42.5	42.5	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)