

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: P276304

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-3000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276304
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: 24CZ2-50-UNV-L92765-W2A1-U-3000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3855.9 lumens
Efficiency: N/A
Efficacy: 98.0 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

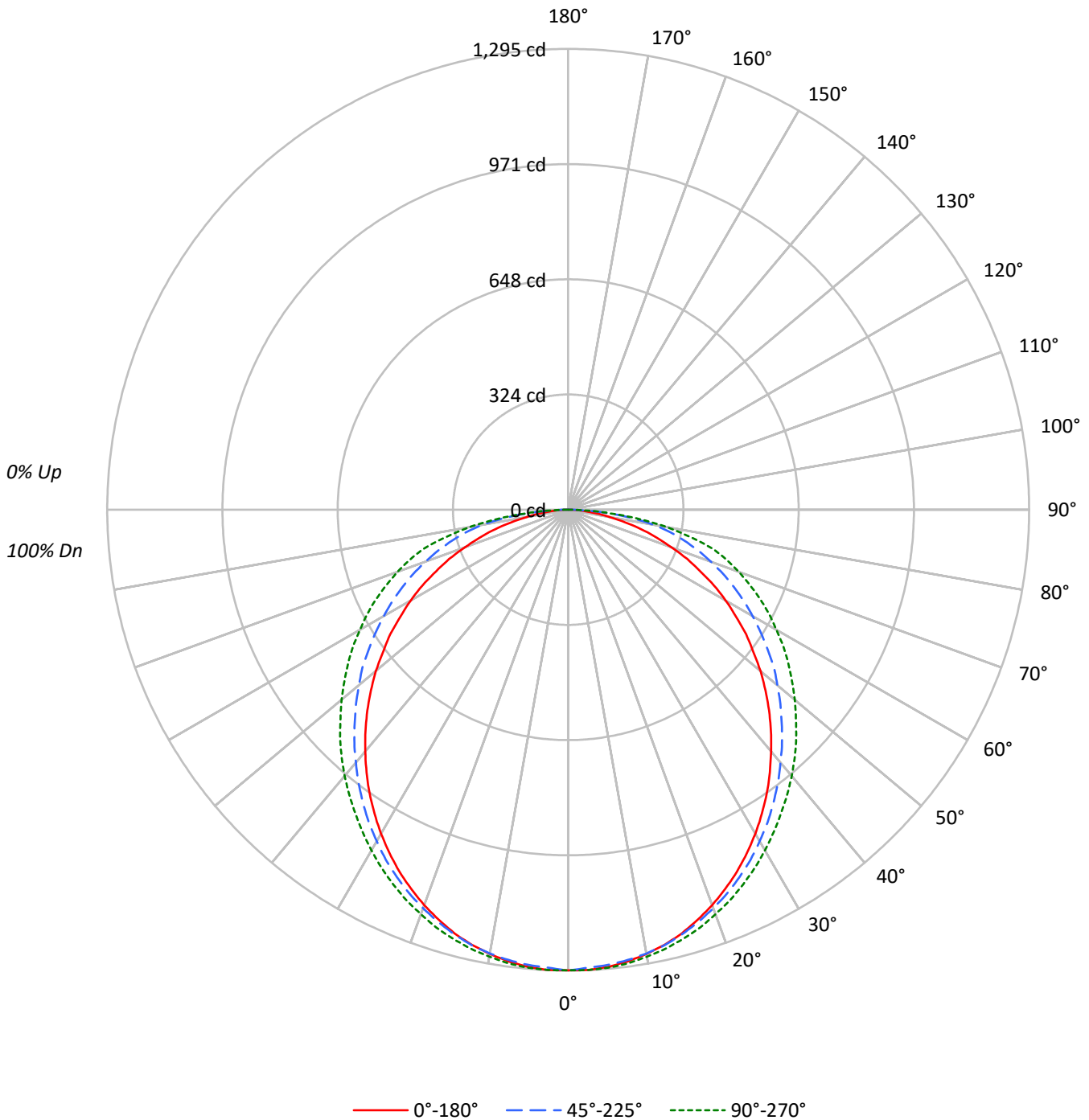
Input Watts (W): 39.339
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1742	1742	1742
5°	1742	1735	1745
10°	1732	1730	1742
15°	1717	1721	1739
20°	1693	1706	1732
25°	1666	1691	1725
30°	1633	1671	1717
35°	1598	1651	1712
40°	1557	1630	1715
45°	1518	1614	1724
50°	1476	1605	1740
55°	1431	1603	1772
60°	1375	1610	1818
65°	1303	1635	1897
70°	1210	1676	2005
75°	1104	1760	2174
80°	907	1894	2173
85°	695	1748	1868



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	3.2
10°-20°	349.5	9.1
20°-30°	526.0	13.6
30°-40°	630.4	16.3
40°-50°	656.9	17.0
50°-60°	611.2	15.9
60°-70°	503.4	13.1
70°-80°	342.8	8.9
80°-90°	113.2	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°	998.0	25.9
0°-40°	1628.4	42.2
0°-60°	2896.5	75.1
0°-90°	3855.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3855.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1295	1295	1295	1295	1295	
5°	1290	1290	1284	1291	1292	122
15°	1233	1234	1235	1247	1248	347
25°	1122	1127	1139	1158	1162	517
35°	973	984	1005	1032	1042	608
45°	798	815	848	890	906	615
55°	610	631	683	737	755	544
65°	409	444	514	574	596	406
75°	212	260	338	399	418	224
85°	45	88	113	121	121	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1294.6	1294.6	1294.6	1294.6	1294.6
2.5°	1294.6	1294.6	1288.2	1294.6	1294.6
5°	1289.5	1289.5	1284.3	1290.7	1292.0
7.5°	1280.4	1281.7	1276.6	1284.3	1285.6
10°	1267.6	1268.9	1266.3	1274.0	1275.3
12.5°	1252.1	1253.4	1253.4	1262.4	1263.7
15°	1232.8	1234.1	1235.4	1247.0	1248.3
17.5°	1208.4	1212.2	1214.8	1229.0	1231.5
20°	1182.6	1186.5	1191.7	1207.1	1209.7
22.5°	1153.0	1158.2	1167.2	1183.9	1187.8
25°	1122.2	1127.3	1138.9	1158.2	1162.1
27.5°	1087.4	1095.1	1109.3	1129.9	1135.0
30°	1051.4	1059.1	1075.8	1097.7	1105.4
32.5°	1012.8	1023.1	1042.4	1066.8	1074.5
35°	972.9	984.5	1005.1	1032.1	1042.4
37.5°	930.4	943.3	967.7	997.3	1010.2
40°	886.7	902.1	927.8	962.6	976.7
42.5°	842.9	857.1	889.2	926.6	942.0
45°	797.9	814.6	848.1	890.5	906.0
47.5°	751.5	768.3	808.2	853.2	867.4
50°	705.2	721.9	767.0	814.6	831.3
52.5°	655.0	676.9	728.4	776.0	792.7
55°	610.0	630.6	683.3	737.4	755.4
57.5°	558.5	583.0	640.9	697.5	716.8
60°	510.9	536.6	598.4	656.3	675.6
62.5°	462.0	490.3	555.9	615.1	637.0
65°	409.2	444.0	513.5	573.9	595.8
67.5°	361.6	397.6	471.0	532.8	552.1
70°	307.6	351.3	426.0	487.7	509.6
72.5°	261.2	305.0	383.5	444.0	465.9
75°	212.3	260.0	338.5	398.9	418.2
77.5°	163.4	216.2	294.7	341.0	347.5
80°	117.1	172.4	244.5	271.5	280.5
82.5°	82.4	132.5	180.2	198.2	203.3
85°	45.0	87.5	113.2	121.0	121.0
87.5°	19.3	37.3	45.0	46.3	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)