

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: P276303

Luminaire Tested: **24CZ2-50-UNV-L92765-W2A1-U-2700K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276303
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-2700K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 90 CRI LEDS TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3708.3 lumens
Efficiency: N/A
Efficacy: 93.6 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

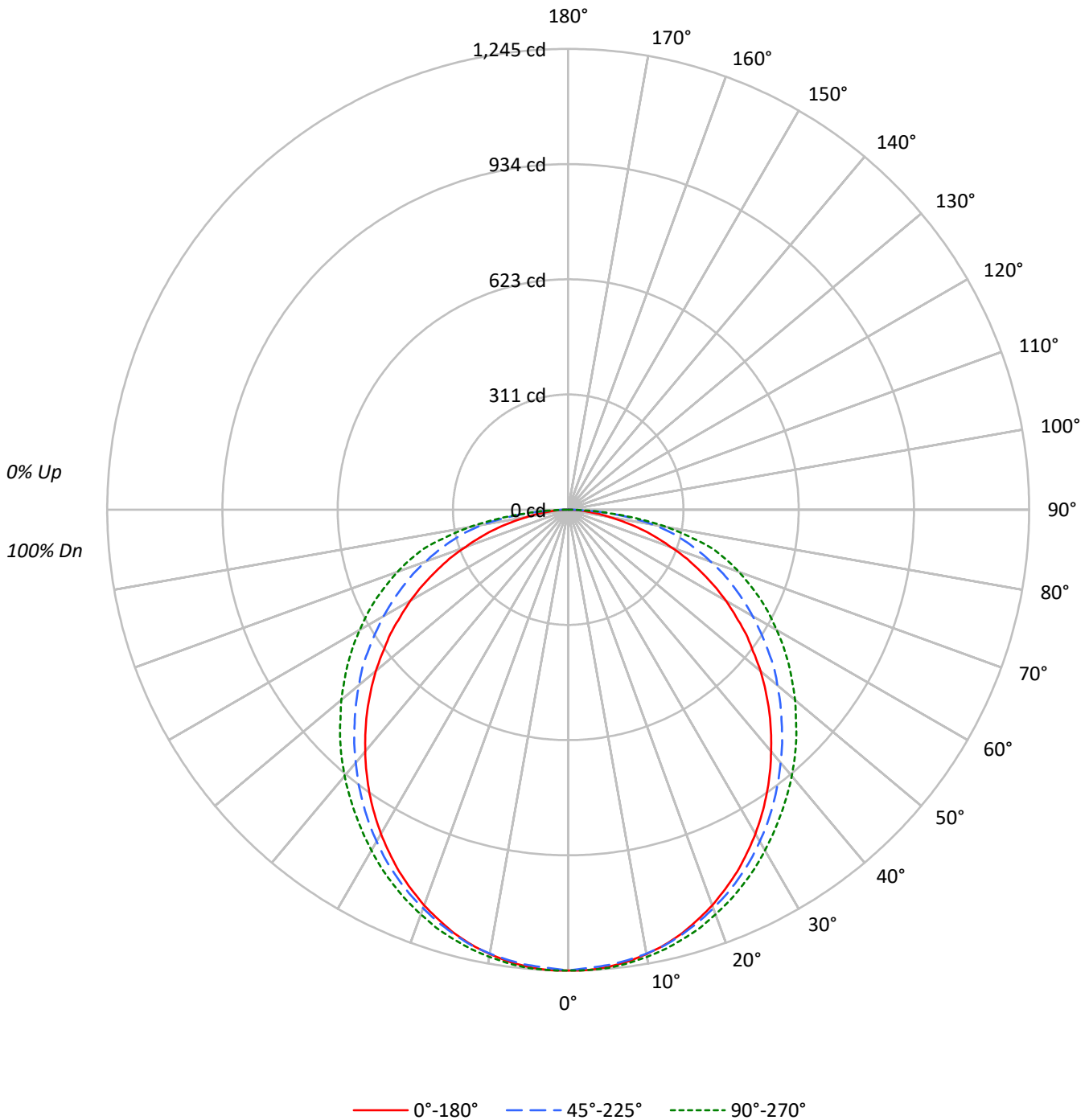
Input Watts (W): 39.618
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1675	1675	1675
5°	1675	1668	1678
10°	1666	1664	1676
15°	1651	1655	1672
20°	1629	1641	1666
25°	1602	1626	1659
30°	1571	1608	1652
35°	1537	1588	1647
40°	1498	1567	1650
45°	1460	1552	1658
50°	1420	1544	1674
55°	1376	1542	1704
60°	1322	1549	1749
65°	1253	1572	1824
70°	1164	1612	1928
75°	1062	1692	2091
80°	872	1822	2091
85°	668	1681	1795



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.8	3.2
10°-20°	336.2	9.1
20°-30°	505.9	13.6
30°-40°	606.3	16.3
40°-50°	631.8	17.0
50°-60°	587.8	15.9
60°-70°	484.1	13.1
70°-80°	329.7	8.9
80°-90°	108.9	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°	959.8	25.9
0°-40°	1566.1	42.2
0°-60°	2785.6	75.1
0°-90°	3708.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3708.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1245	1245	1245	1245	1245	
5°	1240	1240	1235	1241	1243	118
15°	1186	1187	1188	1199	1200	334
25°	1079	1084	1095	1114	1118	497
35°	936	947	967	993	1002	585
45°	767	783	816	856	871	592
55°	587	606	657	709	726	523
65°	394	427	494	552	573	391
75°	204	250	326	384	402	215
85°	43	84	109	116	116	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1245.1	1245.1	1245.1	1245.1	1245.1
2.5°	1245.1	1245.1	1238.9	1245.1	1245.1
5°	1240.1	1240.1	1235.2	1241.3	1242.6
7.5°	1231.4	1232.7	1227.7	1235.2	1236.4
10°	1219.1	1220.3	1217.8	1225.3	1226.5
12.5°	1204.2	1205.5	1205.5	1214.1	1215.4
15°	1185.6	1186.9	1188.1	1199.3	1200.5
17.5°	1162.1	1165.8	1168.3	1181.9	1184.4
20°	1137.4	1141.1	1146.0	1160.9	1163.4
22.5°	1108.9	1113.9	1122.5	1138.6	1142.3
25°	1079.2	1084.2	1095.3	1113.9	1117.6
27.5°	1045.8	1053.2	1066.8	1086.6	1091.6
30°	1011.1	1018.6	1034.7	1055.7	1063.1
32.5°	974.0	983.9	1002.5	1026.0	1033.4
35°	935.6	946.8	966.6	992.6	1002.5
37.5°	894.8	907.2	930.7	959.2	971.5
40°	852.7	867.6	892.3	925.7	939.4
42.5°	810.6	824.3	855.2	891.1	905.9
45°	767.3	783.4	815.6	856.4	871.3
47.5°	722.8	738.9	777.2	820.5	834.2
50°	678.2	694.3	737.6	783.4	799.5
52.5°	630.0	651.0	700.5	746.3	762.4
55°	586.6	606.4	657.2	709.2	726.5
57.5°	537.1	560.6	616.3	670.8	689.4
60°	491.3	516.1	575.5	631.2	649.8
62.5°	444.3	471.5	534.7	591.6	612.6
65°	393.6	427.0	493.8	552.0	573.0
67.5°	347.8	382.4	453.0	512.4	530.9
70°	295.8	337.9	409.7	469.1	490.1
72.5°	251.2	293.3	368.8	427.0	448.0
75°	204.2	250.0	325.5	383.7	402.2
77.5°	157.2	207.9	283.4	328.0	334.2
80°	112.6	165.8	235.1	261.1	269.8
82.5°	79.2	127.5	173.3	190.6	195.5
85°	43.3	84.2	108.9	116.3	116.3
87.5°	18.6	35.9	43.3	44.6	45.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)