

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: P276292

Luminaire Tested: **24CZ2-40-UNV-L92765-W2A1-U-5700K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276292  
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: 24CZ2-40-UNV-L92765-W2A1-U-5700K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 90 CRI LEDS TUNED TO 5700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3609.9 lumens  
Efficiency: N/A  
Efficacy: 115.2 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

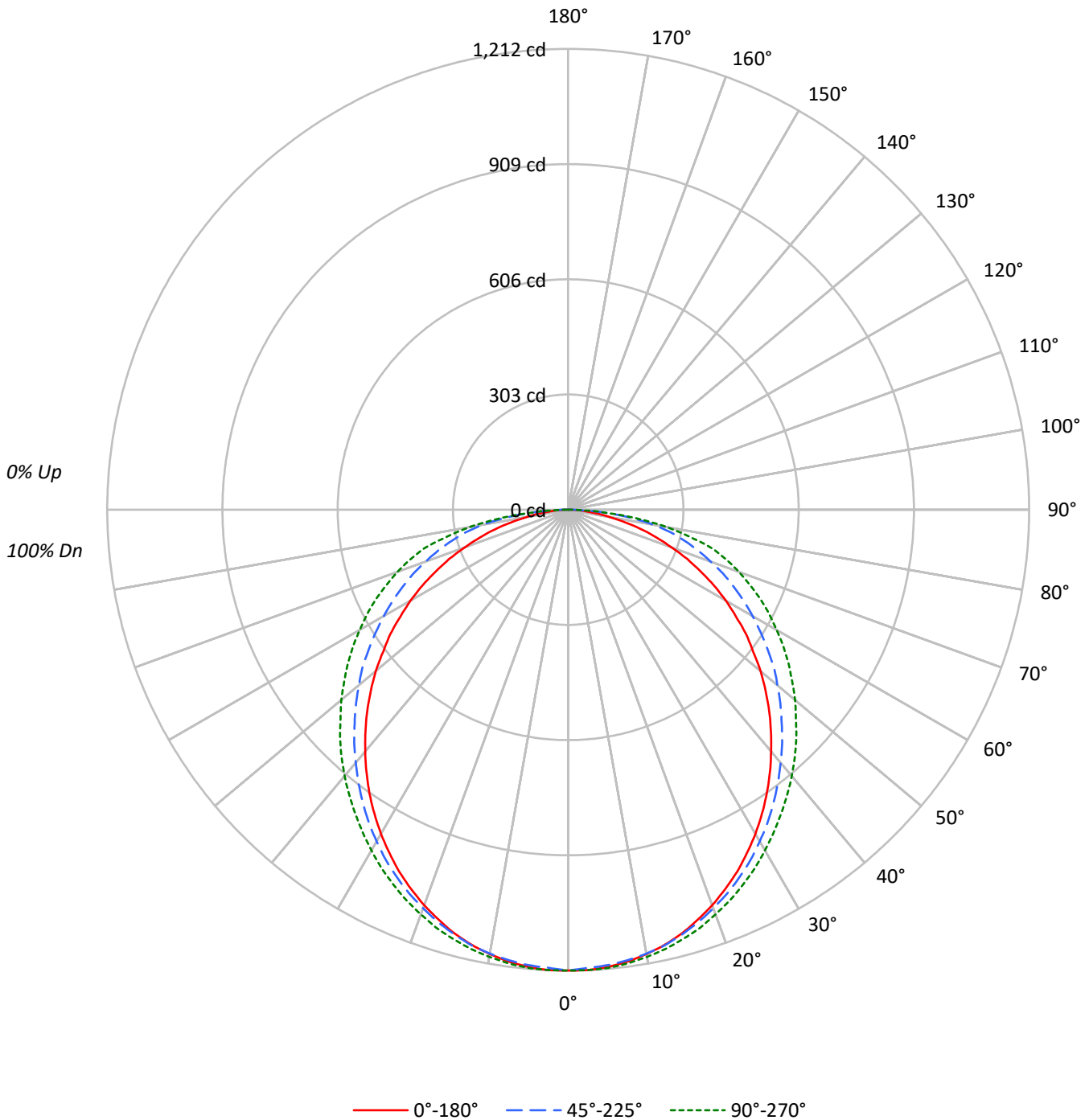
Input Watts (W): 31.341  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1631	1631	1631
5°	1630	1624	1634
10°	1621	1620	1631
15°	1608	1611	1628
20°	1585	1597	1622
25°	1560	1583	1615
30°	1529	1565	1608
35°	1496	1545	1603
40°	1458	1526	1606
45°	1421	1511	1614
50°	1382	1503	1629
55°	1340	1501	1659
60°	1287	1507	1702
65°	1220	1530	1776
70°	1133	1569	1877
75°	1033	1647	2036
80°	849	1774	2035
85°	651	1636	1749



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	3.2
10°-20°	327.3	9.1
20°-30°	492.5	13.6
30°-40°	590.2	16.3
40°-50°	615.0	17.0
50°-60°	572.2	15.9
60°-70°	471.3	13.1
70°-80°	321.0	8.9
80°-90°	106.0	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°	934.3	25.9
0°-40°	1524.5	42.2
0°-60°	2711.7	75.1
0°-90°	3609.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3609.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1207	1207	1202	1208	1210	115
15°	1154	1155	1157	1167	1169	325
25°	1051	1055	1066	1084	1088	484
35°	911	922	941	966	976	569
45°	747	763	794	834	848	576
55°	571	590	640	690	707	509
65°	383	416	481	537	558	380
75°	199	243	317	374	392	210
85°	42	82	106	113	113	52
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1212.0	1212.0	1206.0	1212.0	1212.0
5°	1207.2	1207.2	1202.4	1208.4	1209.6
7.5°	1198.8	1200.0	1195.2	1202.4	1203.6
10°	1186.7	1187.9	1185.5	1192.7	1194.0
12.5°	1172.3	1173.5	1173.5	1181.9	1183.1
15°	1154.2	1155.4	1156.6	1167.4	1168.7
17.5°	1131.3	1134.9	1137.3	1150.6	1153.0
20°	1107.2	1110.8	1115.6	1130.1	1132.5
22.5°	1079.5	1084.3	1092.7	1108.4	1112.0
25°	1050.6	1055.4	1066.2	1084.3	1087.9
27.5°	1018.1	1025.3	1038.5	1057.8	1062.6
30°	984.3	991.5	1007.2	1027.7	1034.9
32.5°	948.2	957.8	975.9	998.8	1006.0
35°	910.8	921.7	940.9	966.2	975.9
37.5°	871.1	883.1	906.0	933.7	945.8
40°	830.1	844.6	868.7	901.2	914.4
42.5°	789.1	802.4	832.5	867.5	881.9
45°	747.0	762.6	794.0	833.7	848.2
47.5°	703.6	719.3	756.6	798.8	812.0
50°	660.2	675.9	718.1	762.6	778.3
52.5°	613.2	633.7	681.9	726.5	742.2
55°	571.1	590.3	639.7	690.3	707.2
57.5°	522.9	545.8	600.0	653.0	671.1
60°	478.3	502.4	560.2	614.4	632.5
62.5°	432.5	459.0	520.5	575.9	596.4
65°	383.1	415.7	480.7	537.3	557.8
67.5°	338.5	372.3	441.0	498.8	516.9
70°	287.9	328.9	398.8	456.6	477.1
72.5°	244.6	285.5	359.0	415.7	436.1
75°	198.8	243.4	316.9	373.5	391.6
77.5°	153.0	202.4	275.9	319.3	325.3
80°	109.6	161.4	228.9	254.2	262.6
82.5°	77.1	124.1	168.7	185.5	190.4
85°	42.2	81.9	106.0	113.3	113.3
87.5°	18.1	34.9	42.2	43.4	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)