

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: P276151

Luminaire Tested: **24CZ2-40-UNV-L82765-W2A1-U-3000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276151  
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-L82765-W2A1-U-3000K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3615.6 lumens  
Efficiency: N/A  
Efficacy: 119.6 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

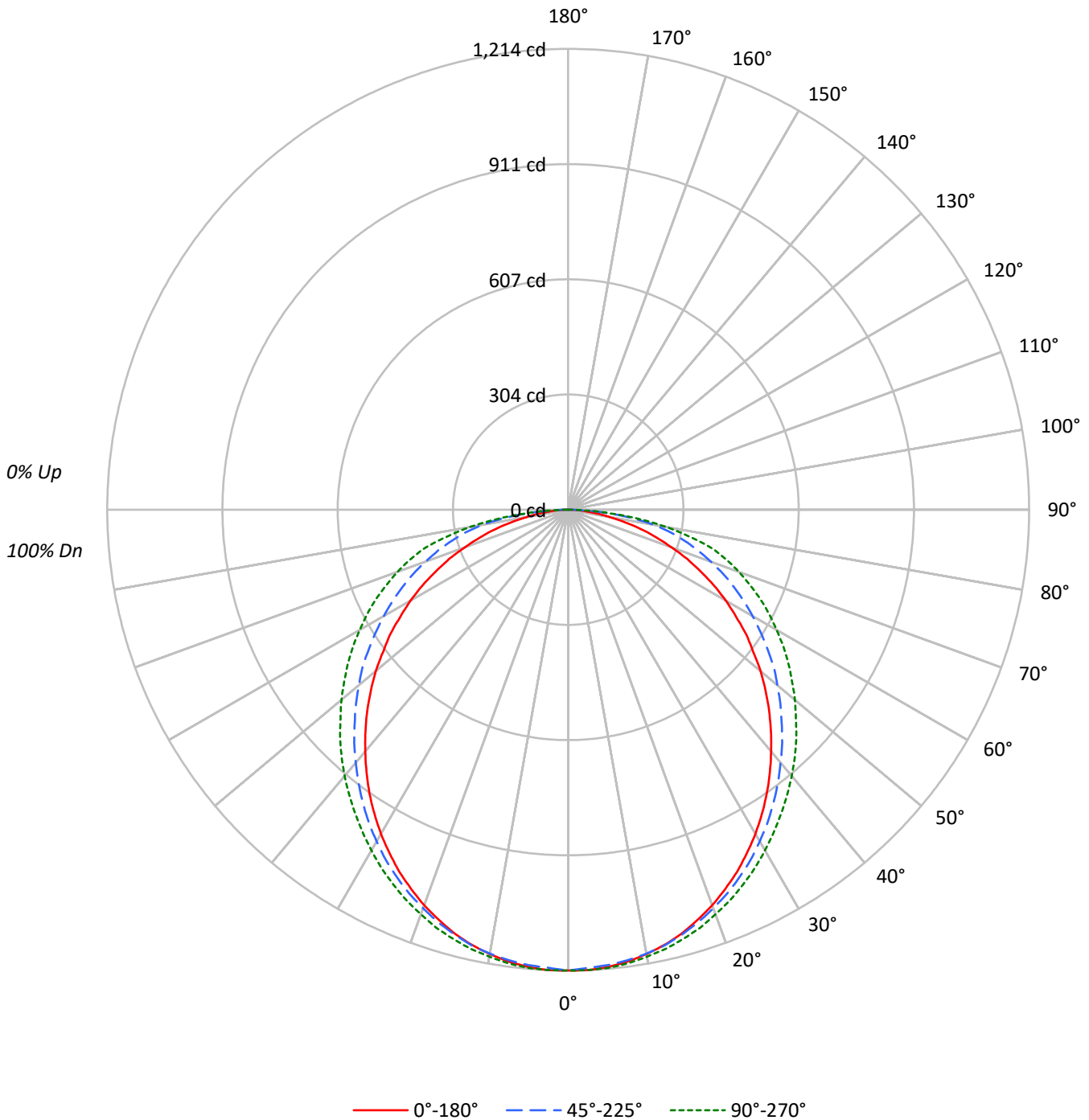
Input Watts (W): 30.225  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1633	1633	1633
5°	1633	1627	1636
10°	1624	1622	1634
15°	1610	1614	1630
20°	1588	1600	1624
25°	1562	1585	1618
30°	1532	1567	1610
35°	1498	1548	1605
40°	1460	1528	1609
45°	1423	1513	1616
50°	1384	1505	1632
55°	1342	1503	1662
60°	1289	1510	1705
65°	1222	1533	1779
70°	1135	1571	1880
75°	1035	1650	2039
80°	851	1777	2039
85°	651	1639	1751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.8	3.2
10°-20°	327.8	9.1
20°-30°	493.2	13.6
30°-40°	591.1	16.3
40°-50°	616.0	17.0
50°-60°	573.1	15.9
60°-70°	472.0	13.1
70°-80°	321.5	8.9
80°-90°	106.1	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°	935.8	25.9
0°-40°	1526.9	42.2
0°-60°	2716.0	75.1
0°-90°	3615.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3615.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1214	1214	1214	1214	1214	
5°	1209	1209	1204	1210	1212	115
15°	1156	1157	1158	1169	1170	326
25°	1052	1057	1068	1086	1090	484
35°	912	923	942	968	977	570
45°	748	764	795	835	850	577
55°	572	591	641	691	708	510
65°	384	416	482	538	559	381
75°	199	244	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°	1213.9	1213.9	1213.9	1213.9	1213.9
2.5°	1213.9	1213.9	1207.9	1213.9	1213.9
5°	1209.1	1209.1	1204.3	1210.3	1211.5
7.5°	1200.7	1201.9	1197.0	1204.3	1205.5
10°	1188.6	1189.8	1187.4	1194.6	1195.8
12.5°	1174.1	1175.3	1175.3	1183.8	1185.0
15°	1156.0	1157.2	1158.4	1169.3	1170.5
17.5°	1133.1	1136.7	1139.1	1152.4	1154.8
20°	1108.9	1112.6	1117.4	1131.9	1134.3
22.5°	1081.2	1086.0	1094.5	1110.2	1113.8
25°	1052.2	1057.1	1067.9	1086.0	1089.6
27.5°	1019.7	1026.9	1040.2	1059.5	1064.3
30°	985.9	993.1	1008.8	1029.3	1036.5
32.5°	949.7	959.3	977.4	1000.3	1007.6
35°	912.3	923.1	942.4	967.8	977.4
37.5°	872.4	884.5	907.4	935.2	947.3
40°	831.4	845.9	870.0	902.6	915.9
42.5°	790.4	803.7	833.8	868.8	883.3
45°	748.1	763.8	795.2	835.0	849.5
47.5°	704.7	720.4	757.8	800.0	813.3
50°	661.3	677.0	719.2	763.8	779.5
52.5°	614.2	634.7	683.0	727.6	743.3
55°	572.0	591.3	640.8	691.4	708.3
57.5°	523.7	546.6	600.9	654.0	672.1
60°	479.1	503.2	561.1	615.4	633.5
62.5°	433.2	459.7	521.3	576.8	597.3
65°	383.7	416.3	481.5	538.2	558.7
67.5°	339.1	372.9	441.6	499.6	517.7
70°	288.4	329.4	399.4	457.3	477.8
72.5°	245.0	286.0	359.6	416.3	436.8
75°	199.1	243.8	317.4	374.1	392.2
77.5°	153.2	202.7	276.3	319.8	325.8
80°	109.8	161.7	229.3	254.6	263.1
82.5°	77.2	124.3	168.9	185.8	190.7
85°	42.2	82.1	106.2	113.4	113.4
87.5°	18.1	35.0	42.2	43.4	44.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)