

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: P276149

Luminaire Tested: **24CZ2-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276149  
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: 24CZ2-35-UNV-L82765-W2A1-U-6500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER  
WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3517.2 lumens  
Efficiency: N/A  
Efficacy: 129.5 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

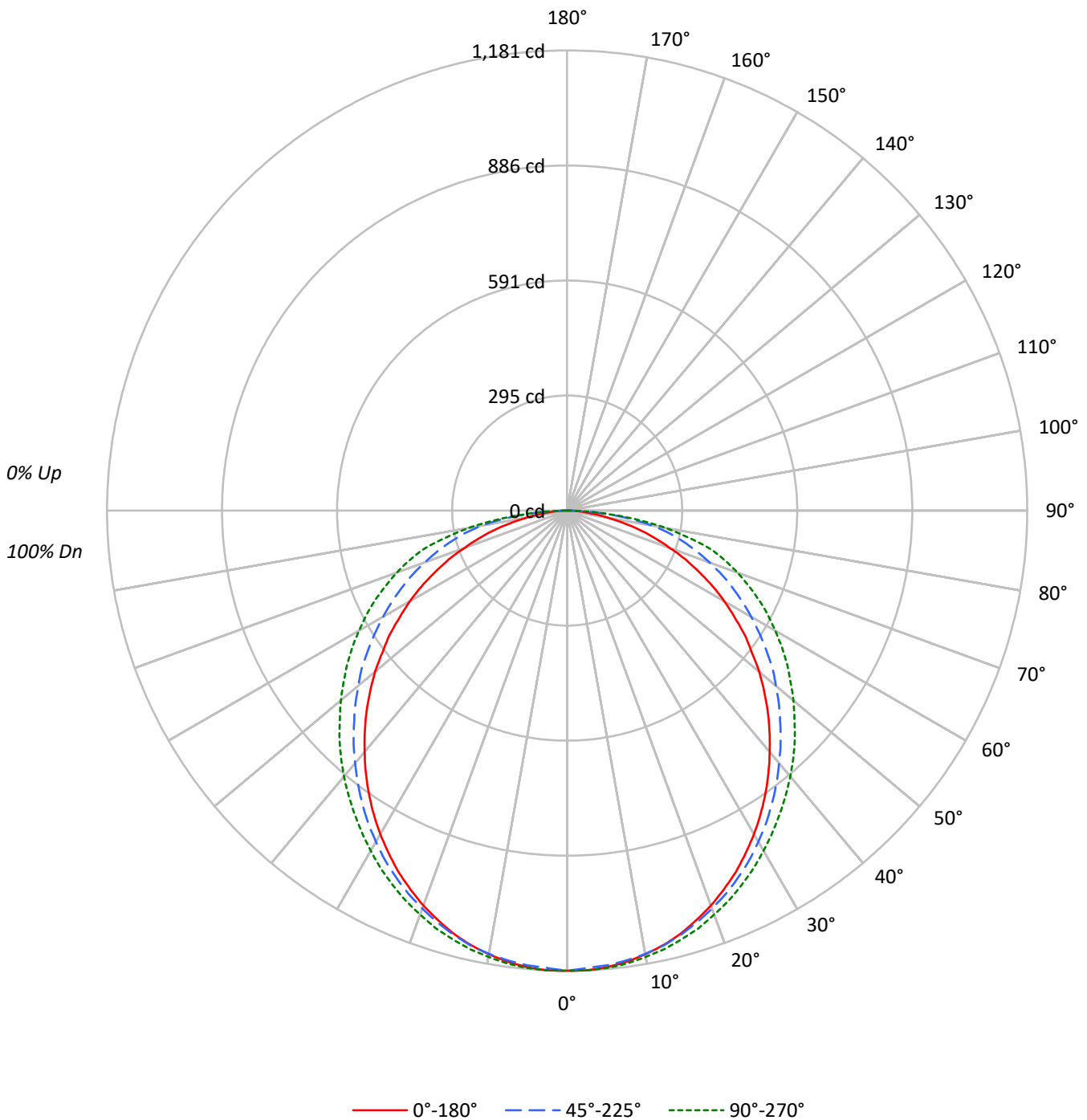
Input Watts (W): 27.156  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1589	1589	1589
5°	1589	1582	1592
10°	1580	1578	1589
15°	1567	1570	1586
20°	1545	1556	1580
25°	1520	1542	1574
30°	1490	1525	1567
35°	1458	1506	1562
40°	1421	1486	1565
45°	1385	1472	1572
50°	1347	1464	1587
55°	1305	1462	1616
60°	1254	1469	1658
65°	1188	1491	1730
70°	1104	1528	1828
75°	1007	1605	1983
80°	828	1728	1983
85°	634	1595	1703



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	3.2
10°-20°	318.9	9.1
20°-30°	479.8	13.6
30°-40°	575.0	16.3
40°-50°	599.2	17.0
50°-60°	557.5	15.9
60°-70°	459.2	13.1
70°-80°	312.7	8.9
80°-90°	103.2	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°	910.4	25.9
0°-40°	1485.4	42.2
0°-60°	2642.1	75.1
0°-90°	3517.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3517.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1181	1181	1181	1181	1181	
5°	1176	1176	1172	1177	1178	112
15°	1125	1126	1127	1138	1139	317
25°	1024	1028	1039	1056	1060	471
35°	887	898	917	941	951	555
45°	728	743	774	812	826	561
55°	556	575	623	673	689	496
65°	373	405	468	524	544	371
75°	194	237	309	364	382	204
85°	41	80	103	110	110	51
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1180.9	1180.9	1180.9	1180.9	1180.9
2.5°	1180.9	1180.9	1175.0	1180.9	1180.9
5°	1176.2	1176.2	1171.5	1177.4	1178.5
7.5°	1168.0	1169.2	1164.5	1171.5	1172.7
10°	1156.2	1157.4	1155.1	1162.1	1163.3
12.5°	1142.2	1143.3	1143.3	1151.6	1152.7
15°	1124.6	1125.7	1126.9	1137.5	1138.6
17.5°	1102.2	1105.8	1108.1	1121.0	1123.4
20°	1078.8	1082.3	1087.0	1101.1	1103.4
22.5°	1051.8	1056.5	1064.7	1079.9	1083.5
25°	1023.6	1028.3	1038.9	1056.5	1060.0
27.5°	991.9	998.9	1011.9	1030.6	1035.3
30°	959.0	966.1	981.3	1001.3	1008.3
32.5°	923.8	933.2	950.8	973.1	980.2
35°	887.4	898.0	916.8	941.4	950.8
37.5°	848.7	860.4	882.7	909.7	921.5
40°	808.8	822.9	846.3	878.0	891.0
42.5°	768.9	781.8	811.1	845.2	859.3
45°	727.8	743.0	773.6	812.3	826.4
47.5°	685.5	700.8	737.2	778.3	791.2
50°	643.3	658.5	699.6	743.0	758.3
52.5°	597.5	617.4	664.4	707.8	723.1
55°	556.4	575.2	623.3	672.6	689.1
57.5°	509.5	531.8	584.6	636.2	653.8
60°	466.0	489.5	545.8	598.7	616.3
62.5°	421.4	447.2	507.1	561.1	581.1
65°	373.3	405.0	468.4	523.5	543.5
67.5°	329.9	362.7	429.6	486.0	503.6
70°	280.6	320.5	388.5	444.9	464.8
72.5°	238.3	278.2	349.8	405.0	424.9
75°	193.7	237.1	308.7	363.9	381.5
77.5°	149.1	197.2	268.8	311.1	316.9
80°	106.8	157.3	223.0	247.7	255.9
82.5°	75.1	120.9	164.3	180.8	185.5
85°	41.1	79.8	103.3	110.3	110.3
87.5°	17.6	34.0	41.1	42.3	43.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)