

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: P276143

Luminaire Tested: **24CZ2-35-UNV-L82765-W2A1-U-3500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P276143  
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-3500K  
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (168) 80 CRI LEDS TUNED TO 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3286.4 lumens  
Efficiency: N/A  
Efficacy: 125.8 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

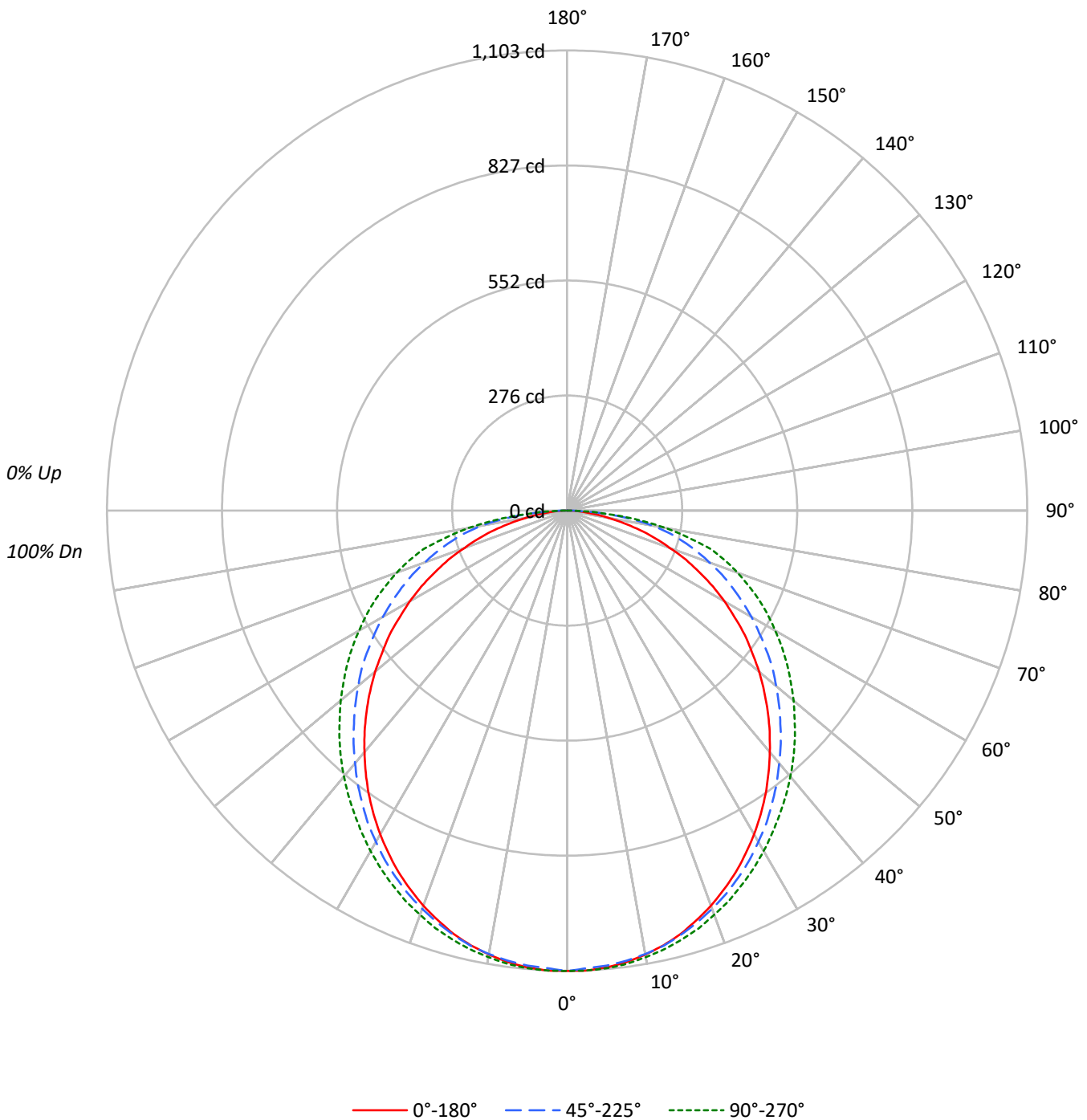
Input Watts (W): 26.133  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	1485	1485	1485
5°	1484	1478	1487
10°	1476	1475	1485
15°	1464	1467	1482
20°	1443	1454	1476
25°	1420	1441	1470
30°	1392	1425	1464
35°	1362	1407	1459
40°	1327	1389	1462
45°	1294	1375	1469
50°	1258	1368	1483
55°	1220	1366	1510
60°	1172	1372	1549
65°	1110	1393	1617
70°	1031	1428	1709
75°	941	1500	1853
80°	773	1615	1853
85°	593	1490	1592



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.4	3.2
10°-20°	297.9	9.1
20°-30°	448.3	13.6
30°-40°	537.3	16.3
40°-50°	559.9	17.0
50°-60°	520.9	15.9
60°-70°	429.0	13.1
70°-80°	292.2	8.9
80°-90°	96.5	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°	850.6	25.9
0°-40°	1387.9	42.2
0°-60°	2468.7	75.1
0°-90°	3286.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3286.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1103	1103	1103	1103	1103	
5°	1099	1099	1095	1100	1101	104
15°	1051	1052	1053	1063	1064	296
25°	956	961	971	987	990	440
35°	829	839	857	880	888	518
45°	680	694	723	759	772	524
55°	520	537	582	628	644	463
65°	349	378	438	489	508	346
75°	181	222	288	340	356	191
85°	38	75	96	103	103	48
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1103.4	1103.4	1103.4	1103.4	1103.4
2.5°	1103.4	1103.4	1097.9	1103.4	1103.4
5°	1099.0	1099.0	1094.6	1100.1	1101.2
7.5°	1091.3	1092.4	1088.0	1094.6	1095.7
10°	1080.4	1081.5	1079.3	1085.8	1086.9
12.5°	1067.2	1068.3	1068.3	1076.0	1077.1
15°	1050.8	1051.8	1052.9	1062.8	1063.9
17.5°	1029.9	1033.2	1035.4	1047.5	1049.7
20°	1008.0	1011.3	1015.7	1028.8	1031.0
22.5°	982.7	987.1	994.8	1009.1	1012.4
25°	956.4	960.8	970.7	987.1	990.4
27.5°	926.8	933.4	945.5	963.0	967.4
30°	896.1	902.7	916.9	935.6	942.2
32.5°	863.2	872.0	888.4	909.3	915.8
35°	829.2	839.1	856.6	879.6	888.4
37.5°	793.0	804.0	824.8	850.0	861.0
40°	755.7	768.9	790.8	820.4	832.5
42.5°	718.4	730.5	757.9	789.7	802.9
45°	680.0	694.3	722.8	759.0	772.2
47.5°	640.5	654.8	688.8	727.2	739.3
50°	601.1	615.3	653.7	694.3	708.5
52.5°	558.3	576.9	620.8	661.4	675.6
55°	519.9	537.4	582.4	628.5	643.8
57.5°	476.0	496.9	546.2	594.5	610.9
60°	435.4	457.4	510.0	559.4	575.8
62.5°	393.8	417.9	473.8	524.3	542.9
65°	348.8	378.4	437.6	489.2	507.8
67.5°	308.2	338.9	401.4	454.1	470.5
70°	262.1	299.4	363.0	415.7	434.3
72.5°	222.7	259.9	326.9	378.4	397.0
75°	181.0	221.6	288.5	340.0	356.5
77.5°	139.3	184.3	251.2	290.7	296.1
80°	99.8	147.0	208.4	231.4	239.1
82.5°	70.2	113.0	153.6	168.9	173.3
85°	38.4	74.6	96.5	103.1	103.1
87.5°	16.5	31.8	38.4	39.5	40.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)