

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: P260858

Luminaire Tested: **24CZ-LD5-40-UNV-L92765-W2A1-U-4000K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P260858  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25697)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-40-UNV-L92765-W2A1-U-4000K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 4000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3597.0 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.25 / 1.35  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

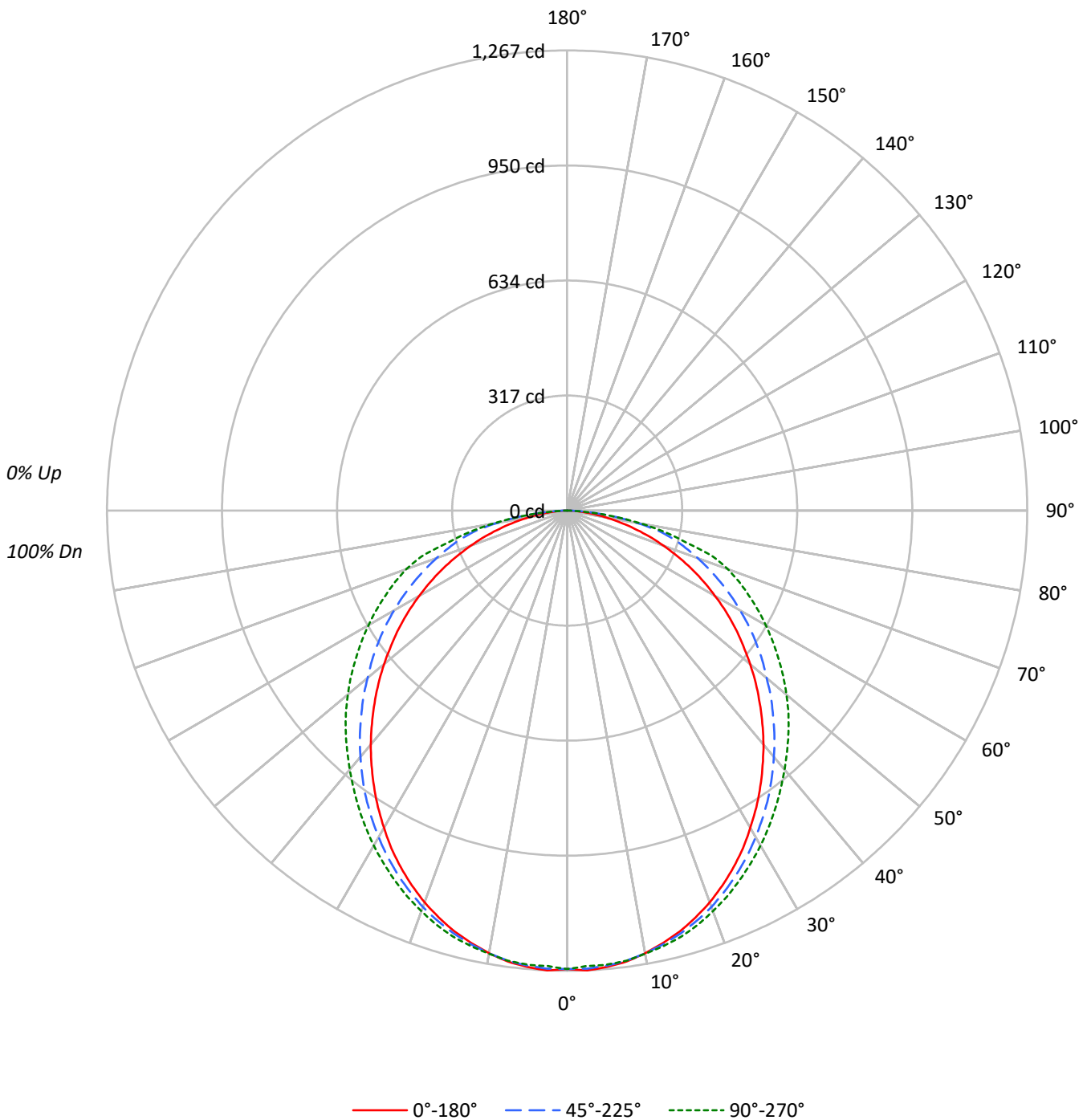
Input Watts (W): 28.644  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83
2	98	90	83	77	95	88	81	76	84	79	74	81	76	72	78	74	71	68
3	89	78	70	63	87	77	69	63	74	67	62	71	65	61	68	64	60	57
4	82	69	60	54	79	68	60	53	66	58	52	63	57	52	61	56	51	49
5	75	62	53	46	73	61	52	46	59	51	45	57	50	45	55	49	44	42
6	69	56	47	40	67	55	46	40	53	45	40	51	44	39	50	44	39	37
7	64	51	42	35	63	50	41	35	48	41	35	47	40	35	45	39	35	32
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29
9	56	42	34	28	54	42	34	28	41	33	28	40	33	28	38	32	28	26
10	52	39	31	26	51	39	31	26	38	31	26	37	30	25	36	30	25	24

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	1699	1699	1699
5°	1703	1698	1695
10°	1691	1691	1693
15°	1671	1679	1691
20°	1643	1663	1681
25°	1609	1640	1667
30°	1567	1613	1655
35°	1523	1586	1643
40°	1477	1555	1635
45°	1427	1526	1640
50°	1377	1500	1650
55°	1326	1491	1667
60°	1266	1481	1700
65°	1200	1482	1756
70°	1109	1507	1851
75°	992	1575	1761
80°	830	1508	1612
85°	627	1159	1102



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.3	3.3
10°-20°	339.5	9.4
20°-30°	507.6	14.1
30°-40°	602.1	16.7
40°-50°	619.7	17.2
50°-60°	568.5	15.8
60°-70°	459.7	12.8
70°-80°	298.3	8.3
80°-90°	82.3	2.3
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°	966.3	26.9
0°-40°	1568.5	43.6
0°-60°	2756.7	76.6
0°-90°	3597.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3597.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1262	1262	1262	1262	1262	
5°	1261	1252	1257	1256	1255	120
15°	1200	1195	1206	1211	1214	338
25°	1084	1085	1105	1115	1123	499
35°	927	935	966	986	1000	580
45°	750	762	802	840	862	579
55°	565	582	636	687	711	505
65°	377	399	466	527	552	372
75°	191	227	303	339	339	203
85°	41	69	75	73	71	50
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1262.4	1262.4	1262.4	1262.4	1262.4
2.5°	1267.3	1257.4	1262.4	1261.1	1255.0
5°	1261.1	1252.5	1257.4	1256.2	1255.0
7.5°	1252.5	1243.9	1250.0	1248.8	1250.0
10°	1237.7	1230.3	1237.7	1239.0	1239.0
12.5°	1219.3	1213.1	1222.9	1225.4	1227.9
15°	1199.5	1194.6	1205.7	1210.6	1214.3
17.5°	1174.9	1171.2	1184.8	1190.9	1195.9
20°	1147.8	1146.6	1161.4	1167.5	1173.7
22.5°	1117.0	1117.0	1134.3	1141.7	1150.3
25°	1083.8	1085.0	1104.7	1114.6	1123.2
27.5°	1048.1	1049.3	1072.7	1085.0	1094.9
30°	1008.7	1013.6	1038.2	1054.2	1065.3
32.5°	969.2	975.4	1002.5	1021.0	1033.3
35°	927.4	934.8	965.6	986.5	1000.0
37.5°	884.3	892.9	926.1	949.5	965.6
40°	841.2	851.0	885.5	912.6	931.1
42.5°	795.6	806.7	844.9	876.9	896.6
45°	750.0	762.3	801.8	839.9	862.1
47.5°	704.5	719.2	761.1	803.0	826.4
50°	657.7	672.4	716.8	764.8	788.2
52.5°	610.9	628.1	677.4	726.6	750.0
55°	565.3	582.5	635.5	687.2	710.6
57.5°	518.5	535.7	593.6	647.8	671.2
60°	470.5	490.2	550.5	605.9	631.8
62.5°	423.7	444.6	508.6	567.8	592.4
65°	376.9	399.0	465.5	527.1	551.7
67.5°	328.8	354.7	423.7	486.5	512.3
70°	282.0	310.4	383.0	445.8	470.5
72.5°	236.5	267.3	342.4	406.4	421.2
75°	190.9	226.6	303.0	338.7	338.7
77.5°	147.8	187.2	258.6	272.2	279.6
80°	107.1	150.3	194.6	210.6	208.1
82.5°	71.4	114.5	139.2	139.2	135.5
85°	40.6	69.0	75.1	72.7	71.4
87.5°	17.2	25.9	23.4	18.5	16.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)