

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: P261283

Luminaire Tested: **24CZ-LD5-40-S-UNV-L92765-W2A1-U-6500K**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P261283  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25694)  
Test Lab: INNOVATION CENTER-P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24CZ-LD5-40-S-UNV-L92765-W2A1-U-6500K  
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS  
Light Source: (336) 90 CRI LEDS TUNED AT 6500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3943.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 lumens/watt  
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

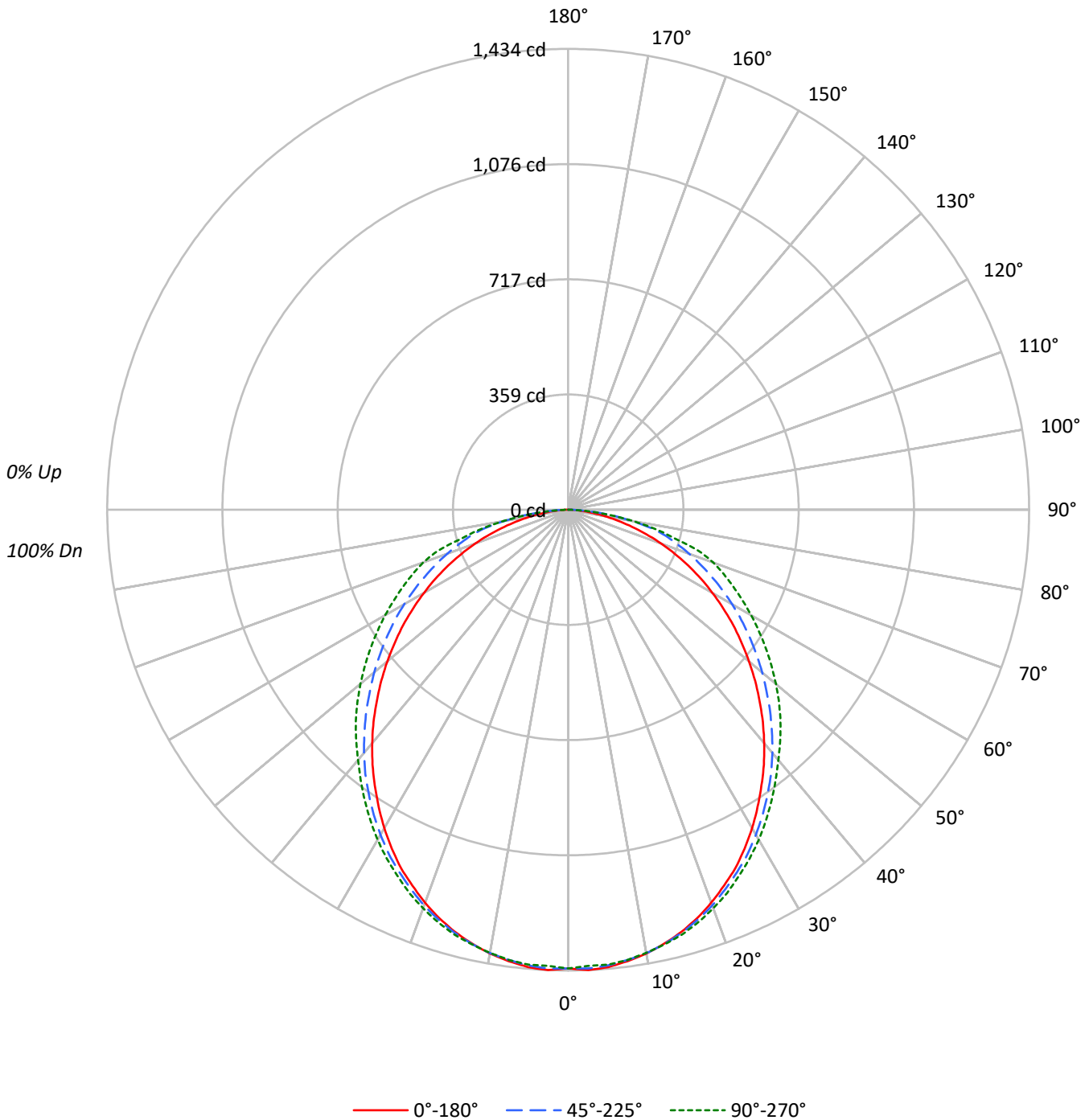
Input Watts (W): 29.574  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	104	99	95	106	101	97	94	97	94	91	93	90	88	89	87	85	83
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	69
3	90	79	71	64	87	77	70	64	74	68	62	72	66	61	69	64	60	58
4	82	70	61	54	80	69	60	54	66	59	53	64	58	52	62	56	52	50
5	76	63	53	47	73	61	53	47	59	52	46	57	51	45	55	50	45	43
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38
7	65	51	42	36	63	50	42	36	49	41	36	47	41	35	46	40	35	33
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	32	30
9	56	43	35	29	55	42	34	29	41	34	29	40	33	29	39	33	29	27
10	53	40	32	26	52	39	31	26	38	31	26	37	31	26	36	30	26	24

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

	0°	45°	90°
0°	1921	1921	1921
5°	1930	1923	1919
10°	1916	1914	1913
15°	1895	1899	1906
20°	1864	1877	1890
25°	1827	1847	1866
30°	1778	1814	1843
35°	1722	1776	1812
40°	1666	1735	1786
45°	1603	1690	1777
50°	1538	1648	1766
55°	1471	1613	1761
60°	1394	1585	1769
65°	1312	1566	1805
70°	1208	1574	1889
75°	1071	1630	1760
80°	895	1545	1586
85°	668	1235	1135



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.0	3.4
10°-20°	383.8	9.7
20°-30°	572.0	14.5
30°-40°	673.3	17.1
40°-50°	684.3	17.4
50°-60°	615.2	15.6
60°-70°	486.0	12.3
70°-80°	308.3	7.8
80°-90°	85.1	2.2
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°	1090.8	27.7
0°-40°	1764.1	44.7
0°-60°	3063.6	77.7
0°-90°	3943.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1427	1427	1427	1427	1427	
5°	1429	1417	1424	1421	1421	135
15°	1360	1354	1363	1367	1368	383
25°	1231	1229	1244	1252	1257	566
35°	1048	1055	1081	1093	1103	656
45°	842	854	888	914	934	650
55°	627	643	688	732	750	560
65°	412	433	492	546	567	408
75°	206	241	314	341	338	219
85°	43	75	80	74	74	53
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1427.4	1427.4	1427.4	1427.4	1427.4
2.5°	1434.0	1423.5	1428.8	1426.1	1420.9
5°	1428.8	1416.9	1423.5	1420.9	1420.9
7.5°	1416.9	1407.8	1413.0	1411.7	1413.0
10°	1402.5	1393.3	1401.2	1401.2	1399.9
12.5°	1382.8	1375.0	1384.1	1384.1	1385.5
15°	1360.5	1354.0	1363.2	1367.1	1368.4
17.5°	1333.0	1326.4	1338.2	1342.2	1346.1
20°	1301.5	1298.9	1310.7	1314.6	1319.9
22.5°	1266.1	1266.1	1277.9	1283.1	1291.0
25°	1230.6	1229.3	1243.8	1251.6	1256.9
27.5°	1188.7	1190.0	1208.3	1216.2	1222.8
30°	1144.1	1146.7	1167.7	1176.8	1186.0
32.5°	1096.8	1102.1	1125.7	1136.2	1145.4
35°	1048.3	1054.8	1081.1	1092.9	1103.4
37.5°	999.7	1008.9	1036.5	1048.3	1060.1
40°	948.6	956.4	987.9	1002.4	1016.8
42.5°	896.1	906.6	938.1	959.1	976.1
45°	842.3	854.1	888.2	914.5	934.1
47.5°	788.5	804.2	837.0	872.5	889.5
50°	734.7	750.5	787.2	826.5	843.6
52.5°	679.6	695.4	737.3	778.0	796.4
55°	627.1	642.9	687.5	732.1	750.5
57.5°	572.0	589.1	638.9	684.9	703.2
60°	518.2	535.3	589.1	637.6	657.3
62.5°	465.8	484.1	540.5	591.7	611.4
65°	412.0	433.0	492.0	545.8	566.8
67.5°	359.5	383.1	444.8	501.2	523.5
70°	307.0	334.6	400.2	457.9	480.2
72.5°	255.8	286.0	355.5	413.3	425.1
75°	206.0	241.4	313.6	341.1	338.5
77.5°	158.8	198.1	266.3	271.6	279.5
80°	115.5	158.8	199.4	209.9	204.7
82.5°	76.1	119.4	143.0	137.8	136.4
85°	43.3	74.8	80.0	73.5	73.5
87.5°	18.4	30.2	26.2	19.7	18.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)