

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: P261058

Luminaire Tested: **24CZ-LD5-40-S-UNV-L93050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261058
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-L93050-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3531.2 lumens
Efficiency: N/A
Efficacy: 122.6 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

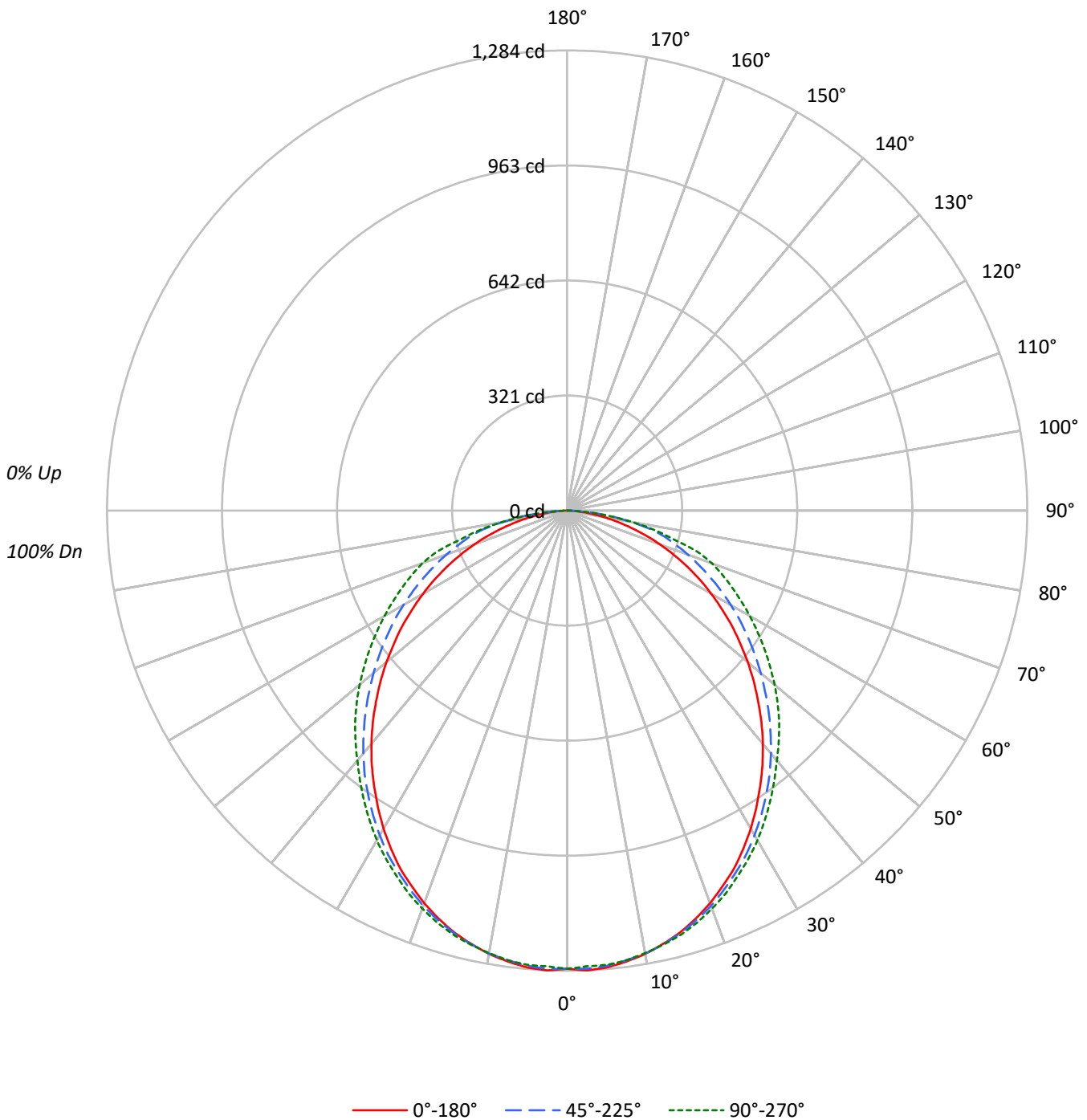
Input Watts (W): 28.809168
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1720	1720	1720
5°	1728	1722	1719
10°	1716	1715	1713
15°	1697	1701	1707
20°	1669	1681	1692
25°	1636	1654	1671
30°	1592	1625	1650
35°	1542	1590	1623
40°	1492	1554	1599
45°	1435	1514	1592
50°	1377	1476	1581
55°	1317	1444	1577
60°	1249	1420	1584
65°	1174	1403	1616
70°	1081	1410	1692
75°	959	1460	1576
80°	801	1384	1420
85°	599	1107	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.4
10°-20°	343.7	9.7
20°-30°	512.3	14.5
30°-40°	603.0	17.1
40°-50°	612.8	17.4
50°-60°	550.9	15.6
60°-70°	435.3	12.3
70°-80°	276.1	7.8
80°-90°	76.2	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°	976.9	27.7
0°-40°	1579.9	44.7
0°-60°	2743.6	77.7
0°-90°	3531.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3531.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1278	1278	1278	1278	1278	
5°	1280	1269	1275	1272	1272	121
15°	1218	1213	1221	1224	1226	343
25°	1102	1101	1114	1121	1126	507
35°	939	945	968	979	988	587
45°	754	765	796	819	837	582
55°	562	576	616	656	672	502
65°	369	388	441	489	508	365
75°	184	216	281	306	303	196
85°	39	67	72	66	66	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1278.4	1278.4	1278.4	1278.4	1278.4
2.5°	1284.3	1274.9	1279.6	1277.2	1272.5
5°	1279.6	1269.0	1274.9	1272.5	1272.5
7.5°	1269.0	1260.8	1265.5	1264.3	1265.5
10°	1256.1	1247.8	1254.9	1254.9	1253.7
12.5°	1238.4	1231.4	1239.6	1239.6	1240.8
15°	1218.5	1212.6	1220.8	1224.3	1225.5
17.5°	1193.8	1187.9	1198.5	1202.0	1205.5
20°	1165.6	1163.2	1173.8	1177.3	1182.0
22.5°	1133.9	1133.9	1144.4	1149.1	1156.2
25°	1102.1	1101.0	1113.9	1120.9	1125.6
27.5°	1064.5	1065.7	1082.2	1089.2	1095.1
30°	1024.6	1026.9	1045.7	1054.0	1062.2
32.5°	982.3	987.0	1008.1	1017.5	1025.8
35°	938.8	944.7	968.2	978.8	988.2
37.5°	895.3	903.6	928.2	938.8	949.4
40°	849.5	856.6	884.8	897.7	910.6
42.5°	802.5	811.9	840.1	858.9	874.2
45°	754.3	764.9	795.5	819.0	836.6
47.5°	706.2	720.3	749.6	781.4	796.6
50°	658.0	672.1	705.0	740.2	755.5
52.5°	608.6	622.7	660.3	696.8	713.2
55°	561.6	575.7	615.7	655.6	672.1
57.5°	512.3	527.6	572.2	613.3	629.8
60°	464.1	479.4	527.6	571.0	588.7
62.5°	417.1	433.6	484.1	529.9	547.5
65°	368.9	387.7	440.6	488.8	507.6
67.5°	321.9	343.1	398.3	448.8	468.8
70°	274.9	299.6	358.4	410.1	430.0
72.5°	229.1	256.1	318.4	370.1	380.7
75°	184.5	216.2	280.8	305.5	303.1
77.5°	142.2	177.4	238.5	243.2	250.3
80°	103.4	142.2	178.6	188.0	183.3
82.5°	68.1	106.9	128.1	123.4	122.2
85°	38.8	67.0	71.7	65.8	65.8
87.5°	16.4	27.0	23.5	17.6	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)