

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: P261367

Luminaire Tested: **24CZ-LD5-40SE-S-UNV-L92765-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P261367
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-LD5-40SE-S-UNV-L92765-W2A1-U-3500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (168) 90 CRI LEDS TUNED AT 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3532.0 lumens
Efficiency: N/A
Efficacy: 115.8 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

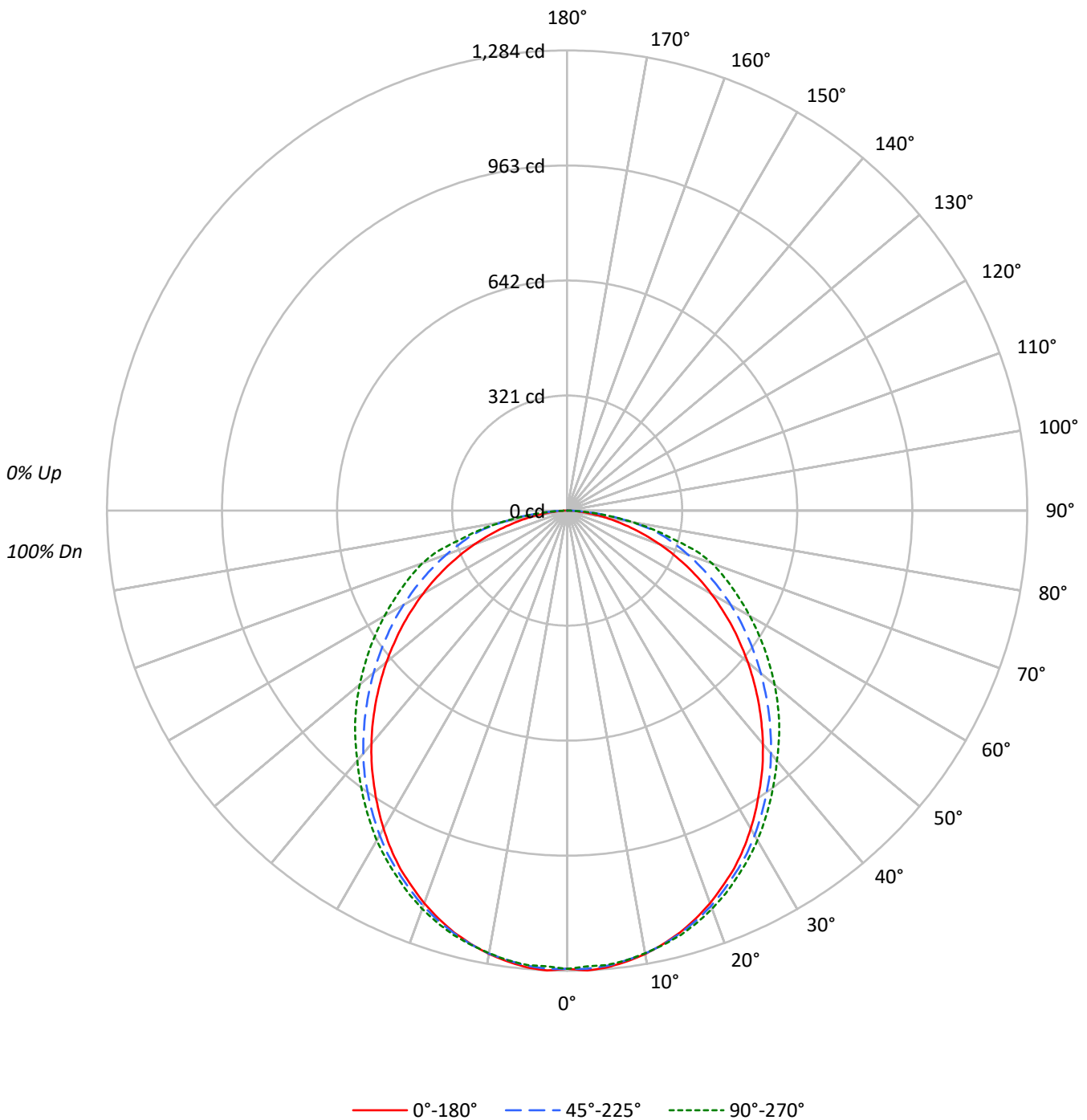
Input Watts (W): 30.504
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1729	1722	1719
10°	1716	1715	1713
15°	1698	1701	1707
20°	1669	1681	1693
25°	1637	1654	1671
30°	1592	1625	1651
35°	1542	1591	1623
40°	1492	1554	1600
45°	1436	1514	1592
50°	1378	1476	1582
55°	1318	1445	1577
60°	1249	1420	1584
65°	1175	1403	1616
70°	1082	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°	343.8	9.7
20°-30°	512.4	14.5
30°-40°	603.1	17.1
40°-50°	612.9	17.4
50°-60°	551.1	15.6
60°-70°	435.4	12.3
70°-80°	276.2	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°	977.1	27.7
0°-40°	1580.2	44.7
0°-60°	2744.2	77.7
0°-90°	3532.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3532.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1279	1279	1279	1279	1279	
5°	1280	1269	1275	1273	1273	121
15°	1219	1213	1221	1225	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	366
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°	1278.6	1278.6	1278.6	1278.6	1278.6
2.5°	1284.5	1275.1	1279.8	1277.5	1272.8
5°	1279.8	1269.2	1275.1	1272.8	1272.8
7.5°	1269.2	1261.0	1265.7	1264.5	1265.7
10°	1256.3	1248.1	1255.1	1255.1	1254.0
12.5°	1238.7	1231.6	1239.9	1239.9	1241.0
15°	1218.7	1212.8	1221.1	1224.6	1225.8
17.5°	1194.0	1188.2	1198.7	1202.3	1205.8
20°	1165.8	1163.5	1174.1	1177.6	1182.3
22.5°	1134.1	1134.1	1144.7	1149.4	1156.4
25°	1102.4	1101.2	1114.1	1121.2	1125.9
27.5°	1064.8	1065.9	1082.4	1089.4	1095.3
30°	1024.8	1027.2	1046.0	1054.2	1062.4
32.5°	982.5	987.2	1008.3	1017.7	1026.0
35°	939.0	944.9	968.4	979.0	988.4
37.5°	895.5	903.8	928.4	939.0	949.6
40°	849.7	856.7	884.9	897.9	910.8
42.5°	802.7	812.1	840.3	859.1	874.4
45°	754.5	765.1	795.6	819.1	836.8
47.5°	706.3	720.4	749.8	781.5	796.8
50°	658.1	672.2	705.1	740.4	755.7
52.5°	608.8	622.9	660.5	696.9	713.4
55°	561.8	575.9	615.8	655.8	672.2
57.5°	512.4	527.7	572.3	613.5	629.9
60°	464.2	479.5	527.7	571.2	588.8
62.5°	417.2	433.7	484.2	530.0	547.7
65°	369.0	387.8	440.7	488.9	507.7
67.5°	322.0	343.2	398.4	448.9	468.9
70°	275.0	299.7	358.4	410.2	430.1
72.5°	229.2	256.2	318.5	370.2	380.8
75°	184.5	216.2	280.9	305.6	303.2
77.5°	142.2	177.5	238.6	243.3	250.3
80°	103.4	142.2	178.6	188.0	183.3
82.5°	68.2	106.9	128.1	123.4	122.2
85°	38.8	67.0	71.7	65.8	65.8
87.5°	16.5	27.0	23.5	17.6	16.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)