

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: P260813

Luminaire Tested: **24CZ-LD5-40SE-UNV-L82765-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260813
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-LD5-40SE-UNV-L82765-W2A1-U-4000K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED AT 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4041.0 lumens
Efficiency: N/A
Efficacy: 131.3 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

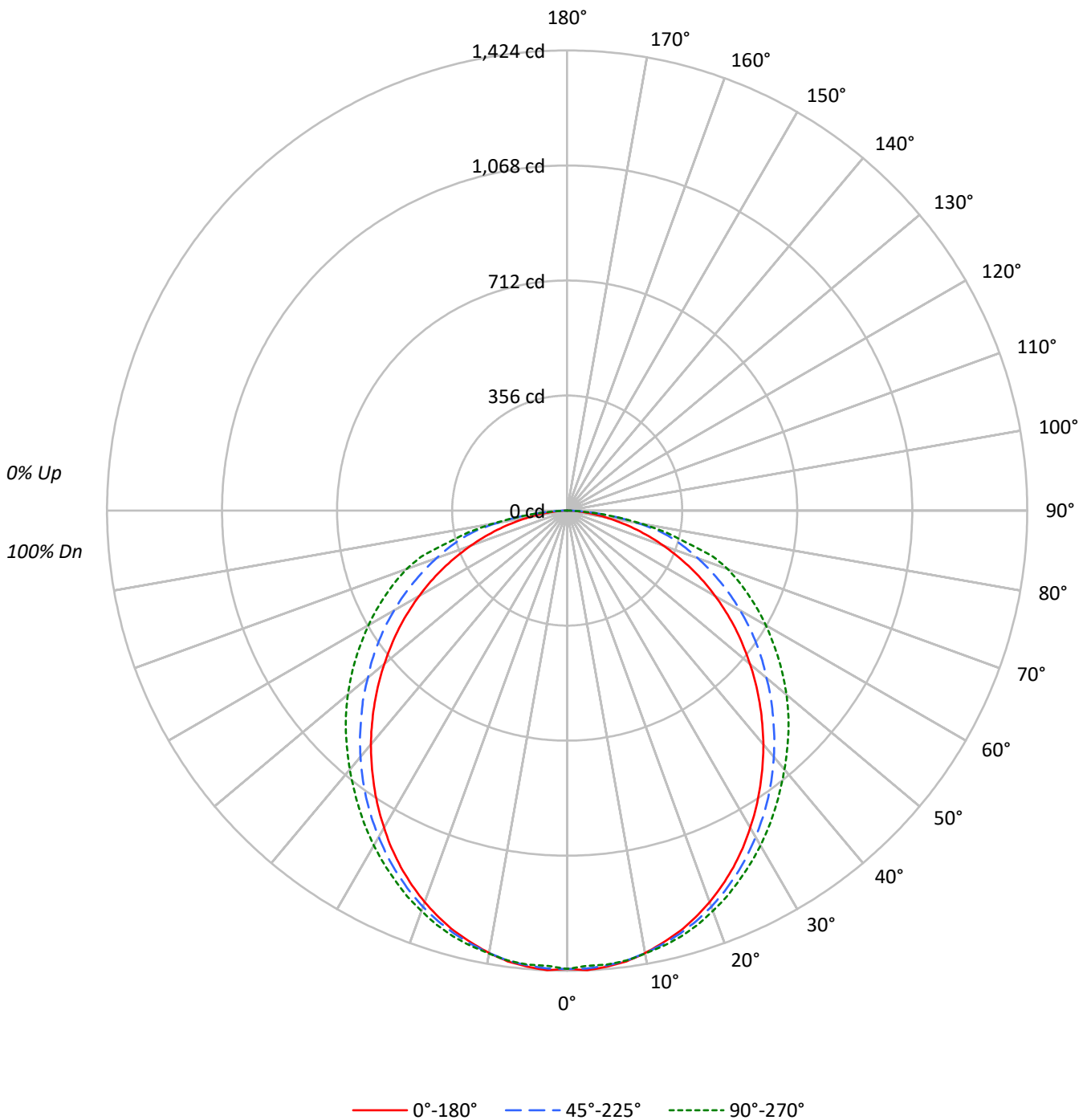
Input Watts (W): 30.783
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1908	1908	1908
5°	1914	1908	1904
10°	1900	1900	1902
15°	1877	1887	1900
20°	1846	1868	1888
25°	1808	1843	1873
30°	1761	1812	1859
35°	1711	1782	1845
40°	1660	1747	1837
45°	1603	1714	1843
50°	1546	1686	1854
55°	1490	1675	1873
60°	1422	1664	1910
65°	1348	1665	1973
70°	1246	1693	2079
75°	1115	1770	1978
80°	933	1694	1812
85°	706	1303	1238



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.0	3.3
10°-20°	381.4	9.4
20°-30°	570.2	14.1
30°-40°	676.4	16.7
40°-50°	696.2	17.2
50°-60°	638.7	15.8
60°-70°	516.4	12.8
70°-80°	335.2	8.3
80°-90°	92.4	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°	1085.6	26.9
0°-40°	1762.1	43.6
0°-60°	3097.0	76.6
0°-90°	4041.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4041.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1417	1407	1413	1411	1410	134
15°	1348	1342	1354	1360	1364	380
25°	1218	1219	1241	1252	1262	560
35°	1042	1050	1085	1108	1124	652
45°	843	856	901	944	968	650
55°	635	654	714	772	798	567
65°	423	448	523	592	620	418
75°	214	255	340	380	380	228
85°	46	78	84	82	80	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.2	1418.2	1418.2	1418.2	1418.2
2.5°	1423.7	1412.6	1418.2	1416.8	1409.9
5°	1416.8	1407.1	1412.6	1411.3	1409.9
7.5°	1407.1	1397.4	1404.3	1403.0	1404.3
10°	1390.5	1382.2	1390.5	1391.9	1391.9
12.5°	1369.8	1362.8	1373.9	1376.7	1379.4
15°	1347.6	1342.1	1354.5	1360.1	1364.2
17.5°	1319.9	1315.8	1331.0	1337.9	1343.5
20°	1289.5	1288.1	1304.7	1311.6	1318.6
22.5°	1254.9	1254.9	1274.3	1282.6	1292.3
25°	1217.6	1218.9	1241.1	1252.1	1261.8
27.5°	1177.4	1178.8	1205.1	1218.9	1230.0
30°	1133.2	1138.7	1166.4	1184.4	1196.8
32.5°	1088.9	1095.8	1126.2	1147.0	1160.8
35°	1041.8	1050.1	1084.7	1108.3	1123.5
37.5°	993.4	1003.1	1040.5	1066.7	1084.7
40°	945.0	956.1	994.8	1025.2	1046.0
42.5°	893.8	906.3	949.1	985.1	1007.3
45°	842.6	856.4	900.7	943.6	968.5
47.5°	791.4	808.0	855.1	902.1	928.4
50°	738.8	755.4	805.3	859.2	885.5
52.5°	686.3	705.6	761.0	816.3	842.6
55°	635.1	654.4	713.9	772.0	798.3
57.5°	582.5	601.9	666.9	727.8	754.1
60°	528.5	550.7	618.5	680.7	709.8
62.5°	476.0	499.5	571.4	637.8	665.5
65°	423.4	448.3	523.0	592.2	619.8
67.5°	369.4	398.5	476.0	546.5	575.6
70°	316.8	348.7	430.3	500.9	528.5
72.5°	265.6	300.2	384.6	456.6	473.2
75°	214.5	254.6	340.4	380.5	380.5
77.5°	166.0	210.3	290.6	305.8	314.1
80°	120.4	168.8	218.6	236.6	233.8
82.5°	80.2	128.7	156.3	156.3	152.2
85°	45.7	77.5	84.4	81.6	80.2
87.5°	19.4	29.1	26.3	20.8	18.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)