

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: P260719

Luminaire Tested: **24CZ-LD5-35-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P260719
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-LD5-35-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2x4 TUNABLE WHITE LED TROFFER WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED AT 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3678.0 lumens
Efficiency: N/A
Efficacy: 145.4 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

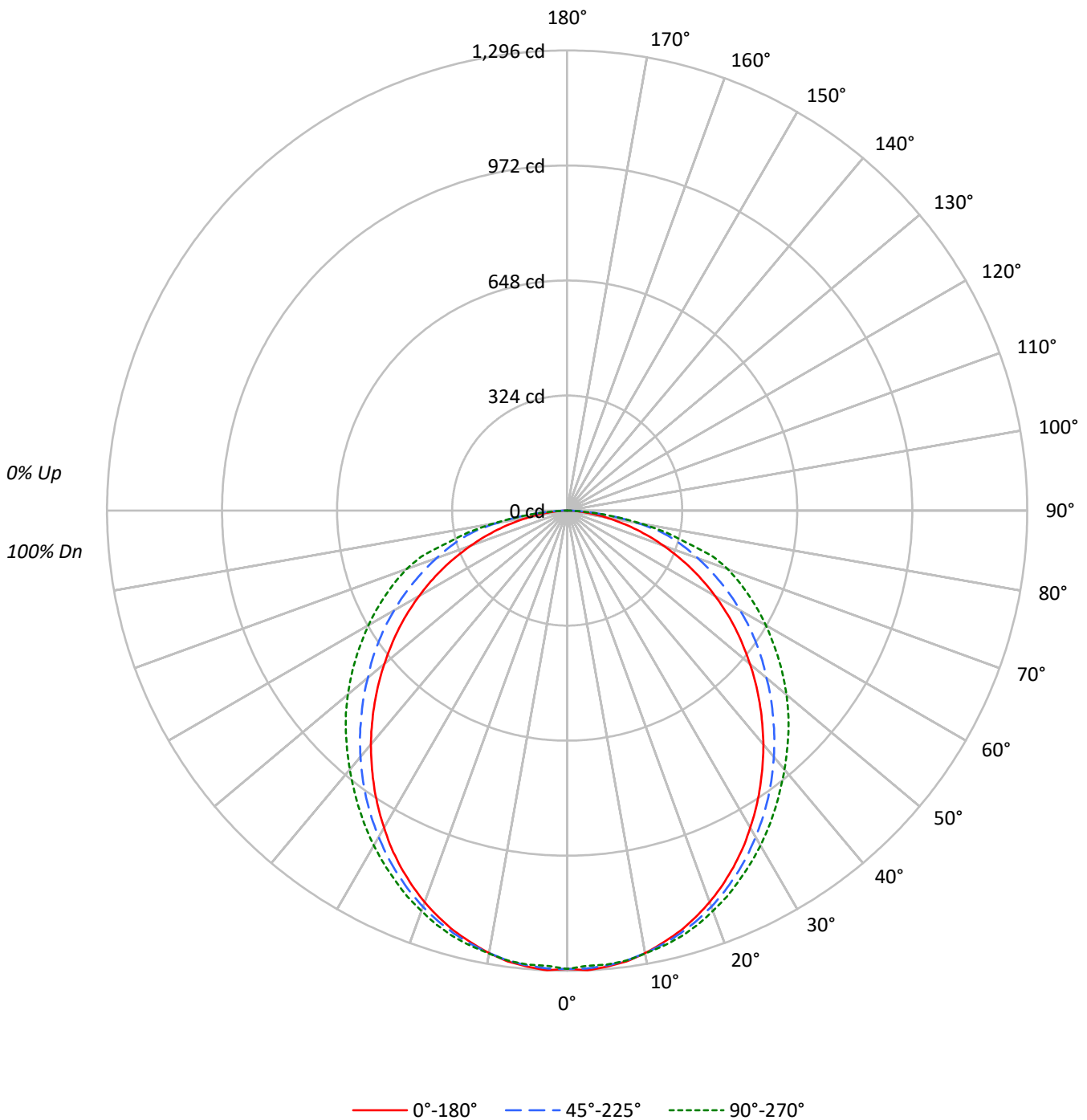
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737	1737	1737
5°	1742	1737	1733
10°	1729	1729	1731
15°	1709	1717	1730
20°	1681	1700	1718
25°	1645	1677	1705
30°	1602	1649	1692
35°	1558	1622	1680
40°	1511	1590	1672
45°	1459	1560	1677
50°	1408	1534	1687
55°	1356	1524	1704
60°	1295	1515	1738
65°	1227	1515	1796
70°	1135	1541	1893
75°	1015	1611	1800
80°	849	1542	1649
85°	642	1186	1127



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.0	3.3
10°-20°	347.2	9.4
20°-30°	519.0	14.1
30°-40°	615.7	16.7
40°-50°	633.7	17.2
50°-60°	581.3	15.8
60°-70°	470.0	12.8
70°-80°	305.1	8.3
80°-90°	84.1	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°	988.1	26.9
0°-40°	1603.8	43.6
0°-60°	2818.8	76.6
0°-90°	3678.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3678.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1290	1281	1286	1284	1283	122
15°	1227	1222	1233	1238	1242	346
25°	1108	1109	1130	1140	1148	510
35°	948	956	987	1009	1023	593
45°	767	780	820	859	882	592
55°	578	596	650	703	727	516
65°	385	408	476	539	564	381
75°	195	232	310	346	346	207
85°	42	70	77	74	73	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1290.8	1290.8	1290.8	1290.8	1290.8
2.5°	1295.8	1285.7	1290.8	1289.5	1283.2
5°	1289.5	1280.7	1285.7	1284.5	1283.2
7.5°	1280.7	1271.9	1278.2	1276.9	1278.2
10°	1265.6	1258.0	1265.6	1266.9	1266.9
12.5°	1246.7	1240.4	1250.5	1253.0	1255.5
15°	1226.6	1221.5	1232.9	1237.9	1241.7
17.5°	1201.4	1197.6	1211.5	1217.7	1222.8
20°	1173.7	1172.4	1187.5	1193.8	1200.1
22.5°	1142.2	1142.2	1159.8	1167.4	1176.2
25°	1108.2	1109.4	1129.6	1139.7	1148.5
27.5°	1071.7	1072.9	1096.9	1109.4	1119.5
30°	1031.4	1036.4	1061.6	1078.0	1089.3
32.5°	991.1	997.4	1025.1	1044.0	1056.6
35°	948.3	955.8	987.3	1008.7	1022.6
37.5°	904.2	913.0	947.0	970.9	987.3
40°	860.1	870.2	905.4	933.1	952.0
42.5°	813.5	824.8	863.9	896.6	916.8
45°	766.9	779.5	819.8	858.8	881.5
47.5°	720.3	735.4	778.2	821.1	845.0
50°	672.5	687.6	732.9	782.0	806.0
52.5°	624.6	642.2	692.6	743.0	766.9
55°	578.0	595.7	649.8	702.7	726.6
57.5°	530.2	547.8	607.0	662.4	686.3
60°	481.1	501.2	562.9	619.6	646.0
62.5°	433.2	454.6	520.1	580.5	605.7
65°	385.3	408.0	476.0	539.0	564.2
67.5°	336.2	362.7	433.2	497.4	523.9
70°	288.4	317.3	391.6	455.9	481.1
72.5°	241.8	273.3	350.1	415.6	430.7
75°	195.2	231.7	309.8	346.3	346.3
77.5°	151.1	191.4	264.5	278.3	285.9
80°	109.6	153.6	199.0	215.3	212.8
82.5°	73.0	117.1	142.3	142.3	138.5
85°	41.6	70.5	76.8	74.3	73.0
87.5°	17.6	26.4	23.9	18.9	16.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)