

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: P276479

Luminaire Tested: **24CZ2-35HE-S-UNV-L82765-W2A1-U-6500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35HE-S-UNV-L82765-W2A1-U-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER WITH SMOOTH LENS
Light Source: (336) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3655.9 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.27 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

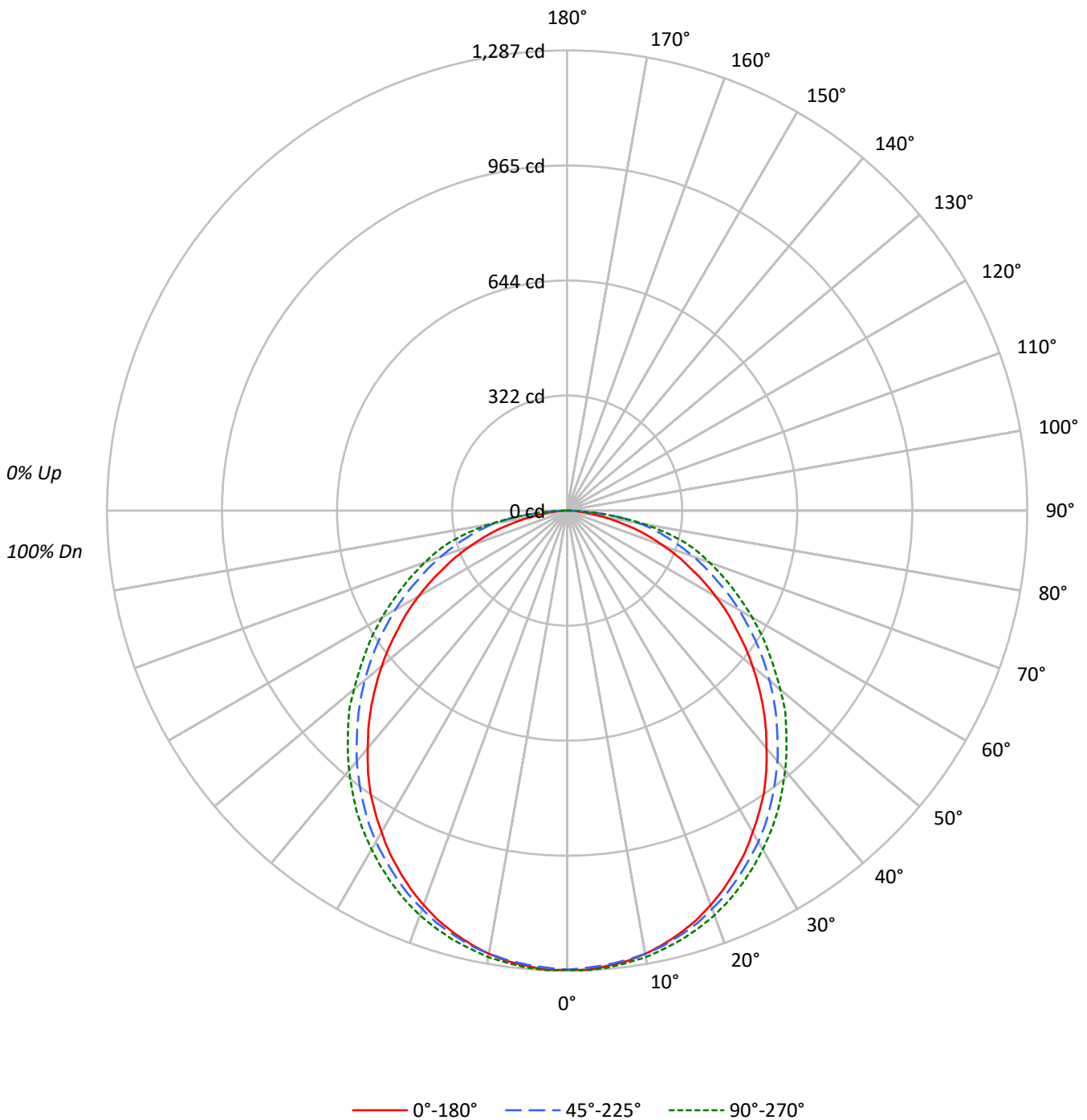
Input Watts (W): 25.296
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	96	88	81	76	84	79	74	81	76	72	78	74	71	69
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1728	1728	1728
5°	1727	1722	1733
10°	1720	1720	1733
15°	1703	1711	1729
20°	1681	1698	1724
25°	1650	1681	1714
30°	1613	1662	1700
35°	1577	1635	1686
40°	1524	1607	1666
45°	1474	1576	1648
50°	1417	1546	1629
55°	1354	1517	1613
60°	1291	1494	1609
65°	1209	1468	1619
70°	1119	1476	1663
75°	1002	1503	1757
80°	810	1592	1719
85°	610	1399	1363



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.6	3.3
10°-20°	347.4	9.5
20°-30°	522.3	14.3
30°-40°	622.1	17.0
40°-50°	636.7	17.4
50°-60°	573.2	15.7
60°-70°	450.2	12.3
70°-80°	292.2	8.0
80°-90°	90.4	2.5
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°	991.3	27.1
0°-40°	1613.4	44.1
0°-60°	2823.3	77.2
0°-90°	3655.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3655.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1278	1281	1275	1282	1283	121
15°	1223	1226	1229	1239	1241	345
25°	1111	1121	1132	1151	1154	512
35°	960	972	995	1020	1026	599
45°	775	793	828	859	866	597
55°	577	603	647	680	688	517
65°	380	409	461	499	509	378
75°	193	230	289	329	338	204
85°	40	73	91	88	88	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1284.3	1284.3	1284.3	1284.3	1284.3
2.5°	1285.5	1285.5	1279.7	1285.5	1286.7
5°	1278.5	1280.9	1275.1	1282.0	1283.2
7.5°	1271.6	1271.6	1268.1	1275.1	1276.2
10°	1258.8	1260.0	1258.8	1266.9	1268.1
12.5°	1242.5	1244.9	1246.0	1254.2	1255.3
15°	1222.8	1226.3	1228.6	1239.1	1241.4
17.5°	1200.7	1204.2	1210.0	1221.6	1224.0
20°	1174.0	1178.7	1185.6	1200.7	1204.2
22.5°	1145.0	1149.6	1161.3	1175.2	1181.0
25°	1111.3	1120.6	1132.2	1150.8	1154.3
27.5°	1077.6	1085.8	1100.9	1120.6	1125.3
30°	1038.2	1050.9	1069.5	1089.3	1093.9
32.5°	999.8	1012.6	1034.7	1055.6	1061.4
35°	960.4	972.0	995.2	1019.6	1026.5
37.5°	915.1	930.2	955.7	980.1	987.1
40°	867.5	886.0	915.1	940.6	948.7
42.5°	822.2	841.9	870.9	898.8	908.1
45°	774.6	793.1	828.0	859.3	866.3
47.5°	725.8	746.7	783.8	815.2	826.8
50°	677.0	699.1	738.6	771.1	778.0
52.5°	628.2	651.5	693.3	728.1	731.6
55°	577.1	602.7	646.8	680.5	687.5
57.5°	530.7	552.8	600.4	635.2	643.3
60°	479.6	504.0	555.1	587.6	598.0
62.5°	430.8	456.4	509.8	542.3	551.6
65°	379.7	408.8	461.0	499.3	508.6
67.5°	335.6	363.5	419.2	456.4	465.7
70°	284.5	315.9	375.1	413.4	422.7
72.5°	240.4	272.9	332.1	369.3	383.2
75°	192.8	229.9	289.2	328.6	337.9
77.5°	146.3	189.3	249.7	279.9	279.9
80°	104.5	149.8	205.5	219.5	221.8
82.5°	68.5	112.6	152.1	151.0	151.0
85°	39.5	73.2	90.6	88.3	88.3
87.5°	15.1	30.2	32.5	32.5	31.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)