

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: P276567

Luminaire Tested: **24CZ2-35-S-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276567
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: 24CZ2-35-S-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3676.8 lumens
Efficiency: N/A
Efficacy: 137.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.26 / 1.35
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

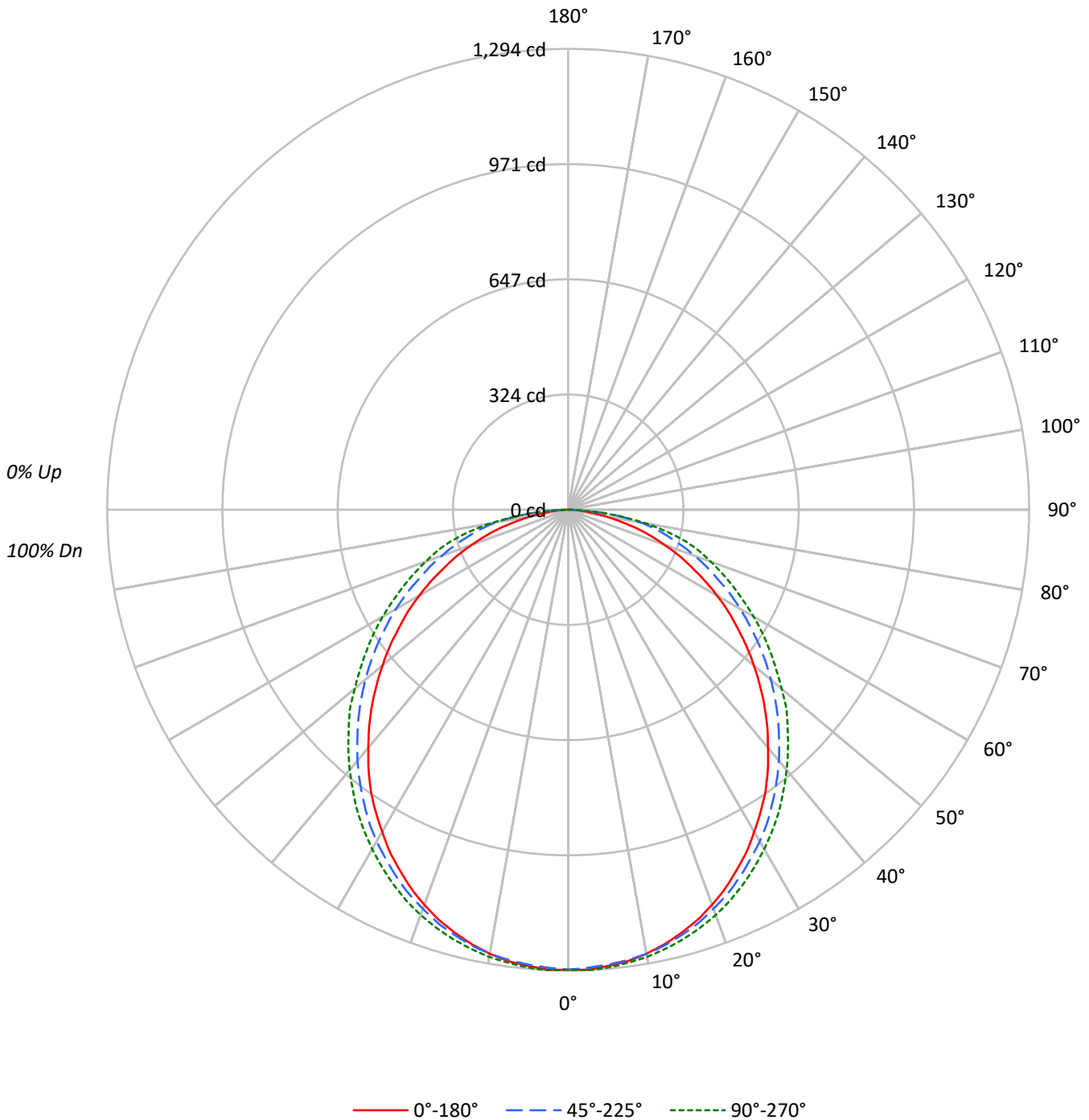
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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					100			
1	108	103	99	95	106	101	97	93	97	93	90	93	90	88	89	87	85	83					83			
2	98	90	83	77	96	88	81	76	84	79	74	81	76	72	78	74	71	69					69			
3	89	79	70	64	87	77	69	63	74	67	62	71	66	61	69	64	60	58					58			
4	82	70	61	54	80	68	60	54	66	59	53	63	57	52	61	56	51	49					49			
5	75	62	53	46	73	61	53	46	59	51	46	57	50	45	55	49	45	42					42			
6	70	56	47	40	68	55	47	40	53	46	40	52	45	40	50	44	39	37					37			
7	64	51	42	36	63	50	42	36	48	41	35	47	40	35	46	39	35	33					33			
8	60	46	38	32	58	46	37	32	44	37	32	43	36	31	42	36	31	29					29			
9	56	43	34	29	55	42	34	29	41	34	28	40	33	28	39	33	28	26					26			
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24					24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1738	1738	1738
5°	1737	1732	1743
10°	1730	1730	1742
15°	1713	1721	1739
20°	1691	1707	1734
25°	1659	1690	1723
30°	1622	1671	1709
35°	1586	1644	1696
40°	1532	1616	1676
45°	1482	1584	1658
50°	1425	1555	1638
55°	1361	1526	1622
60°	1298	1502	1619
65°	1216	1476	1628
70°	1126	1484	1672
75°	1008	1512	1767
80°	814	1602	1729
85°	613	1406	1371



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.3
10°-20°	349.4	9.5
20°-30°	525.2	14.3
30°-40°	625.6	17.0
40°-50°	640.3	17.4
50°-60°	576.5	15.7
60°-70°	452.7	12.3
70°-80°	293.8	8.0
80°-90°	90.9	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°	996.9	27.1
0°-40°	1622.6	44.1
0°-60°	2839.4	77.2
0°-90°	3676.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3676.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1292	1292	1292	1292	1292	
5°	1286	1288	1282	1289	1290	122
15°	1230	1233	1236	1246	1248	347
25°	1118	1127	1139	1157	1161	515
35°	966	978	1001	1025	1032	603
45°	779	798	833	864	871	601
55°	580	606	650	684	691	520
65°	382	411	464	502	512	380
75°	194	231	291	330	340	205
85°	40	74	91	89	89	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.7	1291.7	1291.7	1291.7	1291.7
2.5°	1292.8	1292.8	1287.0	1292.8	1294.0
5°	1285.8	1288.2	1282.3	1289.3	1290.5
7.5°	1278.8	1278.8	1275.3	1282.3	1283.5
10°	1266.0	1267.2	1266.0	1274.2	1275.3
12.5°	1249.6	1252.0	1253.1	1261.3	1262.5
15°	1229.8	1233.3	1235.6	1246.1	1248.5
17.5°	1207.6	1211.1	1216.9	1228.6	1230.9
20°	1180.7	1185.4	1192.4	1207.6	1211.1
22.5°	1151.5	1156.2	1167.9	1181.9	1187.7
25°	1117.7	1127.0	1138.7	1157.4	1160.9
27.5°	1083.8	1092.0	1107.2	1127.0	1131.7
30°	1044.1	1056.9	1075.6	1095.5	1100.1
32.5°	1005.5	1018.4	1040.6	1061.6	1067.4
35°	965.8	977.5	1000.9	1025.4	1032.4
37.5°	920.3	935.5	961.2	985.7	992.7
40°	872.4	891.1	920.3	946.0	954.2
42.5°	826.9	846.7	875.9	903.9	913.3
45°	779.0	797.7	832.7	864.2	871.2
47.5°	729.9	750.9	788.3	819.9	831.5
50°	680.9	703.1	742.8	775.5	782.5
52.5°	631.8	655.2	697.2	732.3	735.8
55°	580.4	606.1	650.5	684.4	691.4
57.5°	533.7	555.9	603.8	638.8	647.0
60°	482.3	506.9	558.2	590.9	601.5
62.5°	433.3	459.0	512.7	545.4	554.7
65°	381.9	411.1	463.6	502.2	511.5
67.5°	337.5	365.5	421.6	459.0	468.3
70°	286.1	317.7	377.2	415.8	425.1
72.5°	241.8	274.5	334.0	371.4	385.4
75°	193.9	231.2	290.8	330.5	339.9
77.5°	147.2	190.4	251.1	281.5	281.5
80°	105.1	150.7	206.7	220.7	223.1
82.5°	68.9	113.3	153.0	151.8	151.8
85°	39.7	73.6	91.1	88.8	88.8
87.5°	15.2	30.4	32.7	32.7	31.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)