

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: P276569

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276569
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-6500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH SMOOTH LENS
Light Source: (168) 80 CRI LEDS TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3695.7 lumens
Efficiency: N/A
Efficacy: 136.1 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

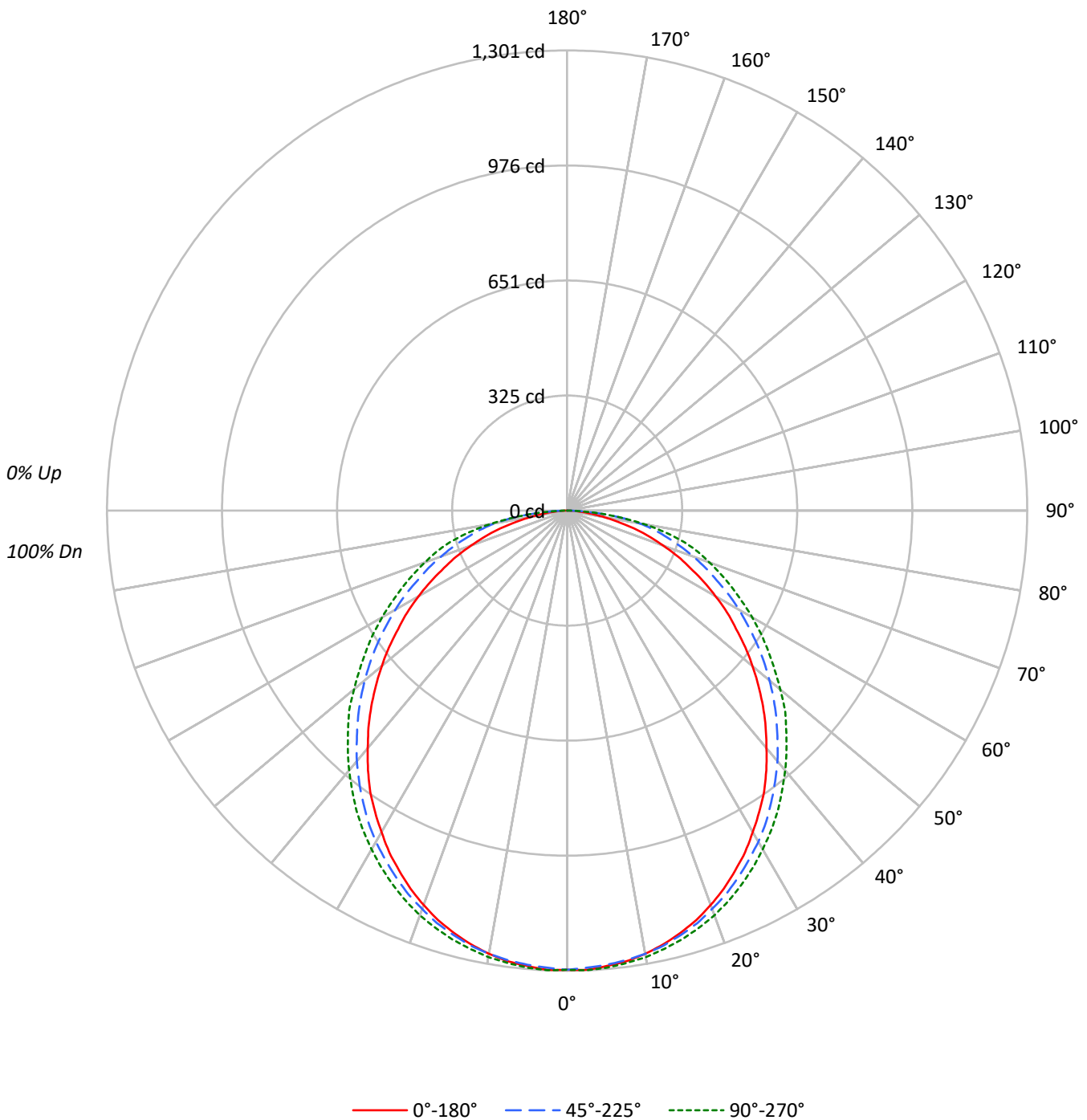
Input Watts (W): 27.156
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1747	1747	1747
5°	1746	1741	1752
10°	1739	1739	1751
15°	1722	1730	1748
20°	1699	1716	1743
25°	1668	1699	1732
30°	1631	1680	1718
35°	1595	1652	1704
40°	1540	1625	1685
45°	1490	1593	1666
50°	1433	1563	1646
55°	1369	1534	1630
60°	1305	1510	1627
65°	1222	1484	1637
70°	1131	1492	1681
75°	1013	1520	1776
80°	818	1610	1737
85°	616	1414	1377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	3.3
10°-20°	351.2	9.5
20°-30°	527.9	14.3
30°-40°	628.9	17.0
40°-50°	643.6	17.4
50°-60°	579.4	15.7
60°-70°	455.0	12.3
70°-80°	295.3	8.0
80°-90°	91.4	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°	1002.1	27.1
0°-40°	1630.9	44.1
0°-60°	2854.0	77.2
0°-90°	3695.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3695.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1298	1298	1298	1298	1298	
5°	1292	1295	1289	1296	1297	123
15°	1236	1240	1242	1252	1255	349
25°	1123	1133	1144	1163	1167	518
35°	971	982	1006	1031	1038	606
45°	783	802	837	869	876	604
55°	583	609	654	688	695	523
65°	384	413	466	505	514	382
75°	195	232	292	332	342	206
85°	40	74	92	89	89	48
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1298.3	1298.3	1298.3	1298.3	1298.3
2.5°	1299.5	1299.5	1293.6	1299.5	1300.7
5°	1292.4	1294.8	1288.9	1296.0	1297.1
7.5°	1285.4	1285.4	1281.9	1288.9	1290.1
10°	1272.5	1273.7	1272.5	1280.7	1281.9
12.5°	1256.1	1258.4	1259.6	1267.8	1269.0
15°	1236.1	1239.6	1242.0	1252.5	1254.9
17.5°	1213.8	1217.3	1223.2	1234.9	1237.3
20°	1186.8	1191.5	1198.5	1213.8	1217.3
22.5°	1157.4	1162.1	1173.9	1188.0	1193.8
25°	1123.4	1132.8	1144.5	1163.3	1166.8
27.5°	1089.4	1097.6	1112.8	1132.8	1137.5
30°	1049.5	1062.4	1081.1	1101.1	1105.8
32.5°	1010.7	1023.6	1045.9	1067.1	1072.9
35°	970.8	982.5	1006.0	1030.7	1037.7
37.5°	925.0	940.3	966.1	990.8	997.8
40°	876.9	895.7	925.0	950.8	959.1
42.5°	831.1	851.1	880.4	908.6	918.0
45°	783.0	801.8	837.0	868.7	875.7
47.5°	733.7	754.8	792.4	824.1	835.8
50°	684.4	706.7	746.6	779.5	786.5
52.5°	635.1	658.5	700.8	736.0	739.5
55°	583.4	609.2	653.9	687.9	694.9
57.5°	536.5	558.8	606.9	642.1	650.3
60°	484.8	509.5	561.1	594.0	604.5
62.5°	435.5	461.3	515.3	548.2	557.6
65°	383.9	413.2	466.0	504.8	514.2
67.5°	339.3	367.4	423.8	461.3	470.7
70°	287.6	319.3	379.2	417.9	427.3
72.5°	243.0	275.9	335.7	373.3	387.4
75°	194.9	232.4	292.3	332.2	341.6
77.5°	147.9	191.3	252.4	282.9	282.9
80°	105.6	151.4	207.8	221.9	224.2
82.5°	69.3	113.9	153.8	152.6	152.6
85°	39.9	74.0	91.6	89.2	89.2
87.5°	15.3	30.5	32.9	32.9	31.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)