

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: P276147

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276147
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1805-783-5)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ2-35-UNV-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3499.3 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.27 / 1.37
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

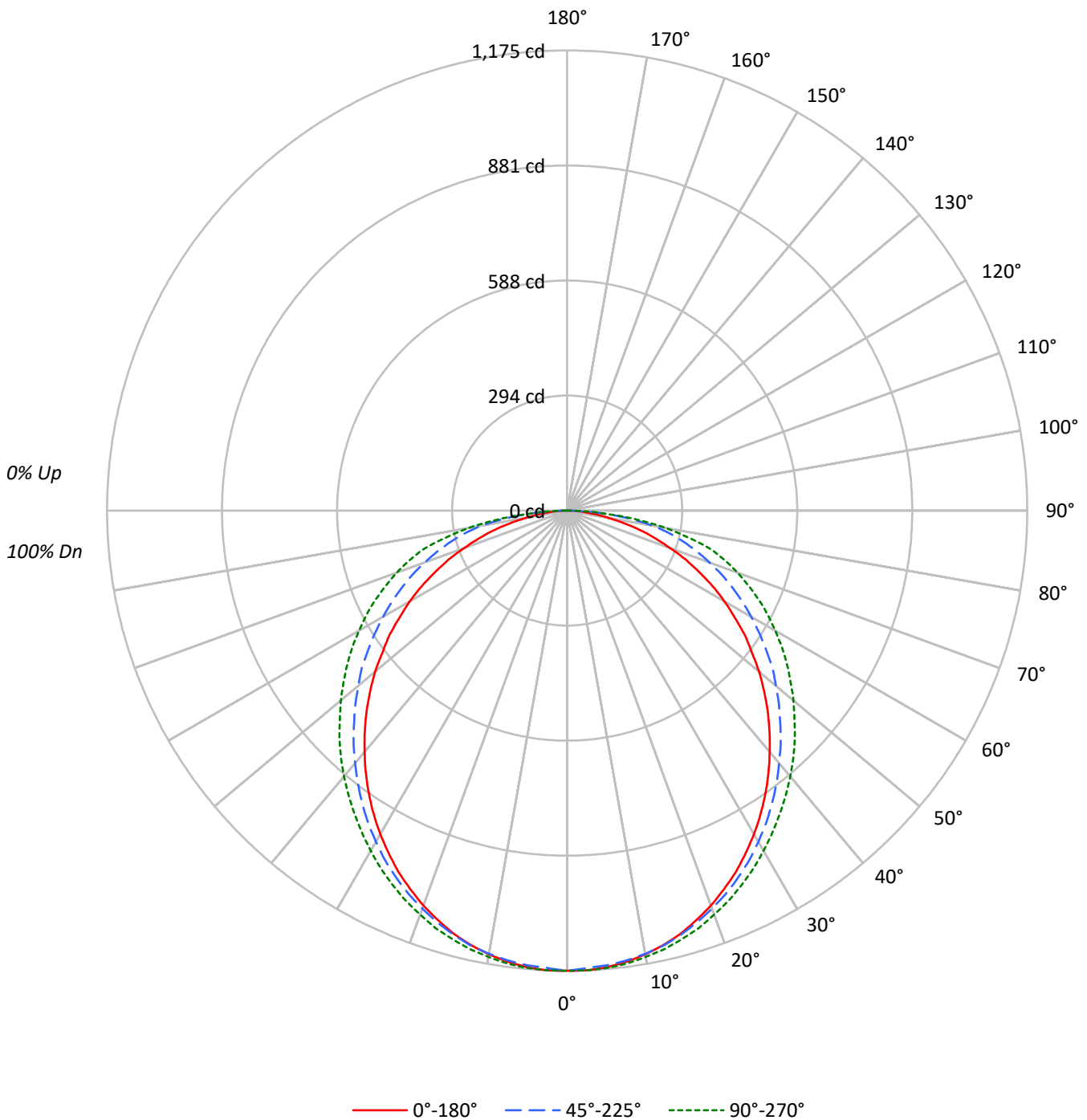
Input Watts (W): 26.784
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	108	103	98	94	105	100	96	92	96	93	89	92	89	87	89	86	84	82
2	98	89	82	76	95	87	80	75	83	78	73	80	75	71	77	73	70	67
3	89	78	69	62	86	76	68	62	73	66	61	70	64	60	68	63	58	56
4	81	69	59	52	79	67	59	52	65	57	51	62	56	51	60	55	50	48
5	74	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	35	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27	25
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1581	1581	1581
5°	1581	1574	1584
10°	1572	1570	1581
15°	1558	1562	1578
20°	1537	1548	1572
25°	1512	1534	1566
30°	1482	1517	1559
35°	1450	1498	1554
40°	1413	1479	1557
45°	1378	1464	1564
50°	1340	1457	1579
55°	1299	1455	1608
60°	1248	1461	1650
65°	1182	1484	1721
70°	1098	1521	1819
75°	1002	1596	1973
80°	824	1719	1973
85°	631	1587	1695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.1	3.2
10°-20°	317.2	9.1
20°-30°	477.4	13.6
30°-40°	572.1	16.3
40°-50°	596.2	17.0
50°-60°	554.7	15.9
60°-70°	456.8	13.1
70°-80°	311.1	8.9
80°-90°	102.7	2.9
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°	905.7	25.9
0°-40°	1477.8	42.2
0°-60°	2628.6	75.1
0°-90°	3499.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3499.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1170	1170	1166	1171	1172	111
15°	1119	1120	1121	1132	1133	315
25°	1018	1023	1034	1051	1055	469
35°	883	893	912	937	946	552
45°	724	739	770	808	822	558
55°	554	572	620	669	686	493
65°	371	403	466	521	541	369
75°	193	236	307	362	380	203
85°	41	79	103	110	110	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1174.9	1174.9	1174.9	1174.9	1174.9
2.5°	1174.9	1174.9	1169.0	1174.9	1174.9
5°	1170.2	1170.2	1165.5	1171.4	1172.5
7.5°	1162.0	1163.2	1158.5	1165.5	1166.7
10°	1150.3	1151.5	1149.2	1156.2	1157.3
12.5°	1136.3	1137.5	1137.5	1145.7	1146.8
15°	1118.8	1120.0	1121.1	1131.7	1132.8
17.5°	1096.6	1100.1	1102.5	1115.3	1117.6
20°	1073.3	1076.8	1081.4	1095.4	1097.8
22.5°	1046.4	1051.1	1059.2	1074.4	1077.9
25°	1018.4	1023.0	1033.6	1051.1	1054.6
27.5°	986.8	993.8	1006.7	1025.4	1030.0
30°	954.1	961.1	976.3	996.2	1003.2
32.5°	919.1	928.4	946.0	968.2	975.2
35°	882.9	893.4	912.1	936.6	946.0
37.5°	844.4	856.0	878.2	905.1	916.8
40°	804.7	818.7	842.0	873.6	886.4
42.5°	764.9	777.8	807.0	840.9	854.9
45°	724.1	739.3	769.6	808.2	822.2
47.5°	682.0	697.2	733.4	774.3	787.1
50°	640.0	655.2	696.0	739.3	754.4
52.5°	594.4	614.3	661.0	704.2	719.4
55°	553.6	572.2	620.1	669.2	685.5
57.5°	506.8	529.0	581.6	633.0	650.5
60°	463.6	487.0	543.1	595.6	613.1
62.5°	419.3	445.0	504.5	558.2	578.1
65°	371.4	402.9	466.0	520.9	540.7
67.5°	328.2	360.9	427.4	483.5	501.0
70°	279.1	318.8	386.6	442.6	462.5
72.5°	237.1	276.8	348.0	402.9	422.8
75°	192.7	235.9	307.1	362.0	379.6
77.5°	148.3	196.2	267.4	309.5	315.3
80°	106.3	156.5	221.9	246.4	254.6
82.5°	74.7	120.3	163.5	179.8	184.5
85°	40.9	79.4	102.8	109.8	109.8
87.5°	17.5	33.9	40.9	42.0	43.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)