

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: P276156

Luminaire Tested: **24CZ2-40-UNV-L82765-W2A1-U-5500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276156
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: 24CZ2-40-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: 3981.7 lumens
Efficiency: N/A
Efficacy: 127.4 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

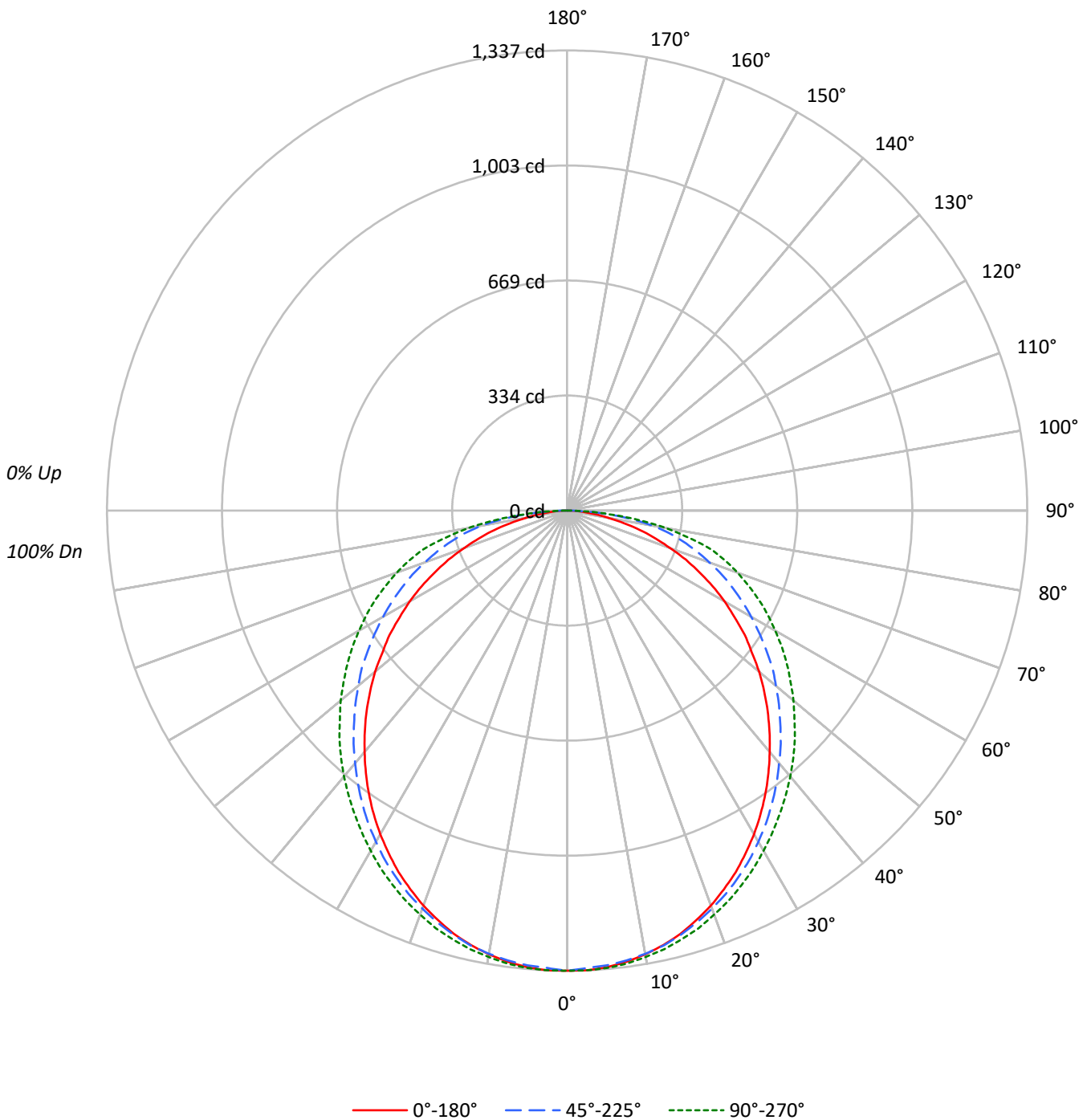
Input Watts (W): 31.248
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1799	1799	1799
5°	1798	1791	1802
10°	1788	1787	1799
15°	1773	1777	1796
20°	1749	1762	1789
25°	1720	1746	1781
30°	1687	1726	1773
35°	1650	1705	1768
40°	1608	1683	1772
45°	1568	1666	1780
50°	1524	1658	1797
55°	1478	1655	1830
60°	1420	1663	1877
65°	1345	1688	1959
70°	1249	1731	2070
75°	1140	1817	2245
80°	937	1956	2245
85°	718	1805	1928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.4	3.2
10°-20°	361.0	9.1
20°-30°	543.2	13.6
30°-40°	651.0	16.3
40°-50°	678.3	17.0
50°-60°	631.1	15.9
60°-70°	519.8	13.1
70°-80°	354.0	8.9
80°-90°	116.9	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°	1030.6	25.9
0°-40°	1681.5	42.2
0°-60°	2991.0	75.1
0°-90°	3981.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3981.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1337	1337	1337	1337	1337	
5°	1332	1332	1326	1333	1334	126
15°	1273	1274	1276	1288	1289	359
25°	1159	1164	1176	1196	1200	533
35°	1005	1017	1038	1066	1076	628
45°	824	841	876	920	936	635
55°	630	651	706	761	780	561
65°	423	458	530	593	615	419
75°	219	268	350	412	432	231
85°	46	90	117	125	125	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1336.8	1336.8	1330.2	1336.8	1336.8
5°	1331.5	1331.5	1326.2	1332.9	1334.2
7.5°	1322.2	1323.6	1318.2	1326.2	1327.5
10°	1308.9	1310.3	1307.6	1315.6	1316.9
12.5°	1293.0	1294.3	1294.3	1303.6	1305.0
15°	1273.1	1274.4	1275.7	1287.7	1289.0
17.5°	1247.8	1251.8	1254.5	1269.1	1271.7
20°	1221.2	1225.2	1230.5	1246.5	1249.1
22.5°	1190.7	1196.0	1205.3	1222.6	1226.6
25°	1158.8	1164.1	1176.1	1196.0	1200.0
27.5°	1122.9	1130.9	1145.5	1166.8	1172.1
30°	1085.7	1093.7	1110.9	1133.5	1141.5
32.5°	1045.8	1056.5	1076.4	1101.6	1109.6
35°	1004.6	1016.6	1037.9	1065.8	1076.4
37.5°	960.8	974.1	999.3	1029.9	1043.2
40°	915.6	931.5	958.1	994.0	1008.6
42.5°	870.4	885.0	918.3	956.8	972.7
45°	823.9	841.2	875.7	919.6	935.5
47.5°	776.1	793.3	834.5	881.0	895.7
50°	728.2	745.5	792.0	841.2	858.5
52.5°	676.4	699.0	752.1	801.3	818.6
55°	629.9	651.1	705.6	761.4	780.0
57.5°	576.7	602.0	661.8	720.2	740.2
60°	527.6	554.1	617.9	677.7	697.7
62.5°	477.1	506.3	574.1	635.2	657.8
65°	422.6	458.5	530.2	592.7	615.3
67.5°	373.4	410.6	486.4	550.2	570.1
70°	317.6	362.8	439.9	503.6	526.2
72.5°	269.8	314.9	396.0	458.5	481.1
75°	219.3	268.4	349.5	412.0	431.9
77.5°	168.8	223.3	304.3	352.2	358.8
80°	120.9	178.1	252.5	280.4	289.7
82.5°	85.0	136.9	186.0	204.6	210.0
85°	46.5	90.4	116.9	124.9	124.9
87.5°	19.9	38.5	46.5	47.8	49.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)