

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: P275954

Luminaire Tested: **24CZ2-40-UNV-L83050-W2A1-U-4000K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275954
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-L83050-W2A1-U-4000K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (168) 80 CRI LEDS TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4021.0 lumens
Efficiency: N/A
Efficacy: 129.1 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

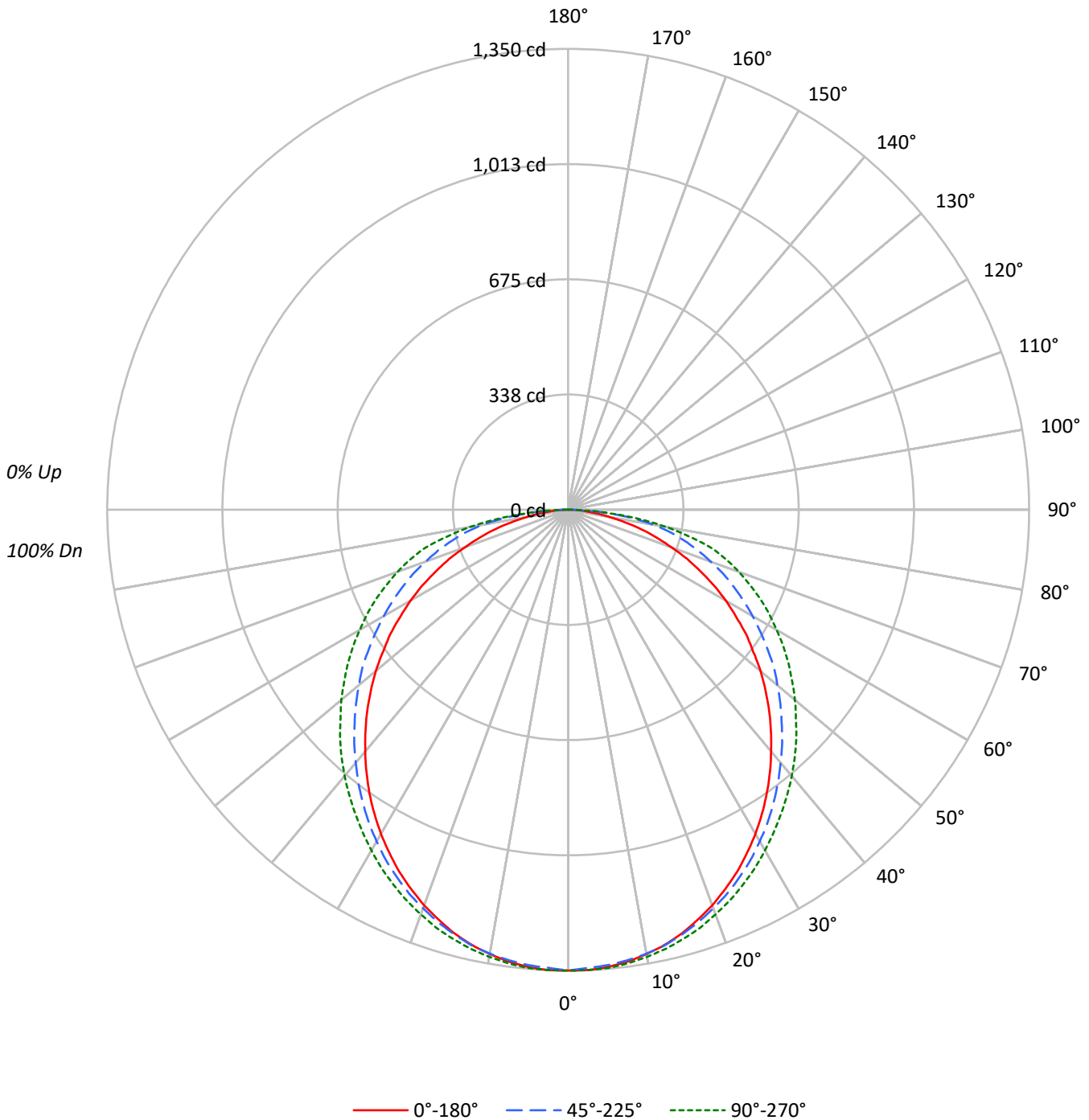
Input Watts (W): 31.155
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1816	1816	1816
5°	1816	1809	1820
10°	1806	1804	1817
15°	1791	1795	1813
20°	1766	1779	1806
25°	1737	1763	1799
30°	1703	1743	1791
35°	1666	1722	1785
40°	1624	1700	1789
45°	1583	1683	1798
50°	1539	1674	1815
55°	1492	1672	1848
60°	1434	1679	1896
65°	1359	1705	1978
70°	1262	1747	2090
75°	1151	1835	2267
80°	946	1976	2267
85°	726	1823	1947



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.7	3.2
10°-20°	364.5	9.1
20°-30°	548.5	13.6
30°-40°	657.4	16.3
40°-50°	685.1	17.0
50°-60°	637.4	15.9
60°-70°	524.9	13.1
70°-80°	357.5	8.9
80°-90°	118.0	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°	1040.7	25.9
0°-40°	1698.1	42.2
0°-60°	3020.5	75.1
0°-90°	4021.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4021.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1350	1350	1350	1350	1350	
5°	1345	1345	1339	1346	1347	128
15°	1286	1287	1288	1300	1302	362
25°	1170	1176	1188	1208	1212	539
35°	1014	1027	1048	1076	1087	634
45°	832	850	884	929	945	642
55°	636	658	713	769	788	567
65°	427	463	536	598	621	424
75°	221	271	353	416	436	233
85°	47	91	118	126	126	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1350.0	1350.0	1350.0	1350.0	1350.0
2.5°	1350.0	1350.0	1343.3	1350.0	1350.0
5°	1344.7	1344.7	1339.3	1346.0	1347.4
7.5°	1335.3	1336.6	1331.2	1339.3	1340.6
10°	1321.9	1323.2	1320.5	1328.6	1329.9
12.5°	1305.8	1307.1	1307.1	1316.5	1317.8
15°	1285.6	1287.0	1288.3	1300.4	1301.7
17.5°	1260.1	1264.1	1266.8	1281.6	1284.3
20°	1233.3	1237.3	1242.7	1258.8	1261.5
22.5°	1202.4	1207.8	1217.2	1234.6	1238.7
25°	1170.2	1175.6	1187.7	1207.8	1211.8
27.5°	1134.0	1142.0	1156.8	1178.3	1183.6
30°	1096.4	1104.5	1121.9	1144.7	1152.8
32.5°	1056.1	1066.9	1087.0	1112.5	1120.6
35°	1014.5	1026.6	1048.1	1076.3	1087.0
37.5°	970.3	983.7	1009.2	1040.0	1053.5
40°	924.6	940.7	967.6	1003.8	1018.6
42.5°	879.0	893.8	927.3	966.2	982.3
45°	832.0	849.5	884.4	928.7	944.8
47.5°	783.7	801.2	842.8	889.7	904.5
50°	735.4	752.9	799.8	849.5	866.9
52.5°	683.1	705.9	759.6	809.2	826.7
55°	636.1	657.6	712.6	769.0	787.7
57.5°	582.4	607.9	668.3	727.4	747.5
60°	532.8	559.6	624.0	684.4	704.5
62.5°	481.8	511.3	579.7	641.5	664.3
65°	426.8	463.0	535.5	598.5	621.3
67.5°	377.1	414.7	491.2	555.6	575.7
70°	320.7	366.4	444.2	508.6	531.4
72.5°	272.4	318.1	399.9	463.0	485.8
75°	221.4	271.1	352.9	416.0	436.1
77.5°	170.4	225.5	307.3	355.6	362.3
80°	122.1	179.8	255.0	283.2	292.6
82.5°	85.9	138.2	187.9	206.7	212.0
85°	47.0	91.3	118.1	126.1	126.1
87.5°	20.1	38.9	47.0	48.3	49.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)