

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: P275903

Luminaire Tested: **24CZ2-40HE-UNV-L83050-W2A1-U-3500K**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P275903
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: 24CZ2-40HE-UNV-L83050-W2A1-U-3500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3853.0 lumens
Efficiency: N/A
Efficacy: 136.3 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

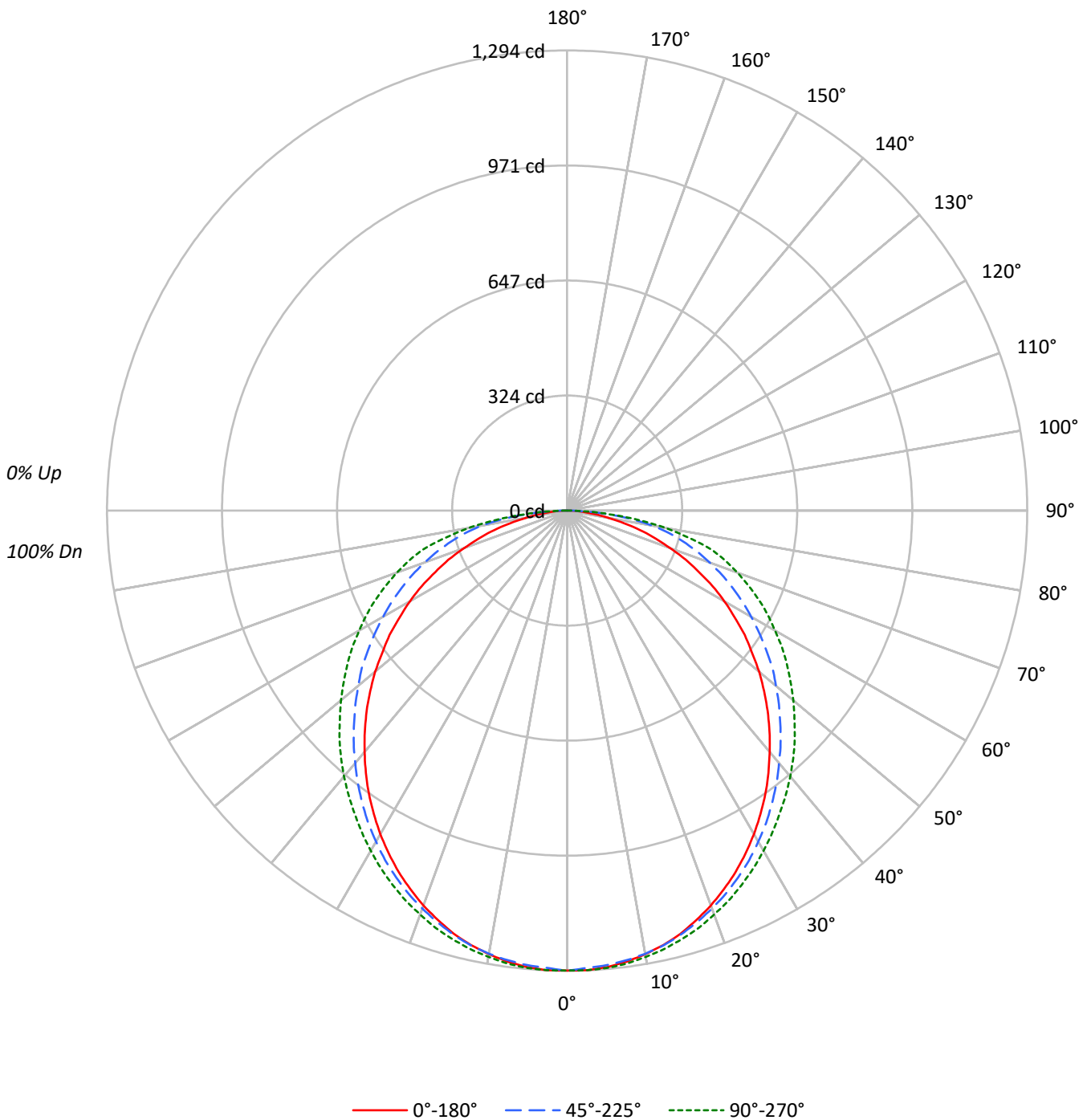
Input Watts (W): 28.272
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1741	1741	1741
5°	1740	1733	1744
10°	1730	1729	1741
15°	1716	1720	1737
20°	1692	1705	1731
25°	1665	1689	1724
30°	1632	1670	1716
35°	1597	1650	1711
40°	1556	1628	1714
45°	1517	1612	1723
50°	1475	1604	1739
55°	1430	1602	1771
60°	1374	1609	1817
65°	1302	1634	1896
70°	1209	1674	2003
75°	1103	1758	2172
80°	907	1893	2172
85°	695	1748	1866



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.3	3.2
10°-20°	349.3	9.1
20°-30°	525.6	13.6
30°-40°	629.9	16.3
40°-50°	656.4	17.0
50°-60°	610.7	15.9
60°-70°	503.0	13.1
70°-80°	342.6	8.9
80°-90°	113.1	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°	997.3	25.9
0°-40°	1627.2	42.2
0°-60°	2894.3	75.1
0°-90°	3853.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3853.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1294	1294	1294	1294	1294	
5°	1288	1288	1283	1290	1291	122
15°	1232	1233	1234	1246	1247	347
25°	1121	1126	1138	1157	1161	516
35°	972	984	1004	1031	1042	608
45°	797	814	847	890	905	615
55°	610	630	683	737	755	543
65°	409	444	513	574	595	406
75°	212	260	338	399	418	224
85°	45	87	113	121	121	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1293.6	1293.6	1287.2	1293.6	1293.6
5°	1288.5	1288.5	1283.3	1289.8	1291.1
7.5°	1279.5	1280.8	1275.6	1283.3	1284.6
10°	1266.6	1267.9	1265.3	1273.1	1274.3
12.5°	1251.2	1252.5	1252.5	1261.5	1262.8
15°	1231.9	1233.2	1234.5	1246.1	1247.3
17.5°	1207.5	1211.3	1213.9	1228.0	1230.6
20°	1181.8	1185.6	1190.8	1206.2	1208.8
22.5°	1152.2	1157.3	1166.3	1183.0	1186.9
25°	1121.3	1126.5	1138.0	1157.3	1161.2
27.5°	1086.6	1094.3	1108.5	1129.0	1134.2
30°	1050.6	1058.3	1075.0	1096.9	1104.6
32.5°	1012.0	1022.3	1041.6	1066.0	1073.7
35°	972.2	983.7	1004.3	1031.3	1041.6
37.5°	929.7	942.6	967.0	996.6	1009.4
40°	886.0	901.4	927.1	961.9	976.0
42.5°	842.3	856.4	888.6	925.9	941.3
45°	797.3	814.0	847.4	889.9	905.3
47.5°	751.0	767.7	807.6	852.6	866.7
50°	704.7	721.4	766.4	814.0	830.7
52.5°	654.5	676.4	727.8	775.4	792.1
55°	609.5	630.1	682.8	736.8	754.8
57.5°	558.1	582.5	640.4	697.0	716.3
60°	510.5	536.2	598.0	655.8	675.1
62.5°	461.6	489.9	555.5	614.7	636.5
65°	408.9	443.6	513.1	573.5	595.4
67.5°	361.3	397.3	470.6	532.4	551.7
70°	307.3	351.1	425.6	487.4	509.2
72.5°	261.0	304.8	383.2	443.6	465.5
75°	212.2	259.8	338.2	398.6	417.9
77.5°	163.3	216.0	294.5	340.8	347.2
80°	117.0	172.3	244.3	271.3	280.3
82.5°	82.3	132.4	180.0	198.0	203.2
85°	45.0	87.4	113.2	120.9	120.9
87.5°	19.3	37.3	45.0	46.3	47.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)