

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: P276066

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P276066
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-L82765-W2A1-U-5500K
Description: CRUZE 2.0 2x4 TUNABLE WHITE LED TROFFER
WITH RIBBED LENS
Light Source: (336) 80 CRI LEDS TUNED TO 5500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4006.3 lumens
Efficiency: N/A
Efficacy: 137.6 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

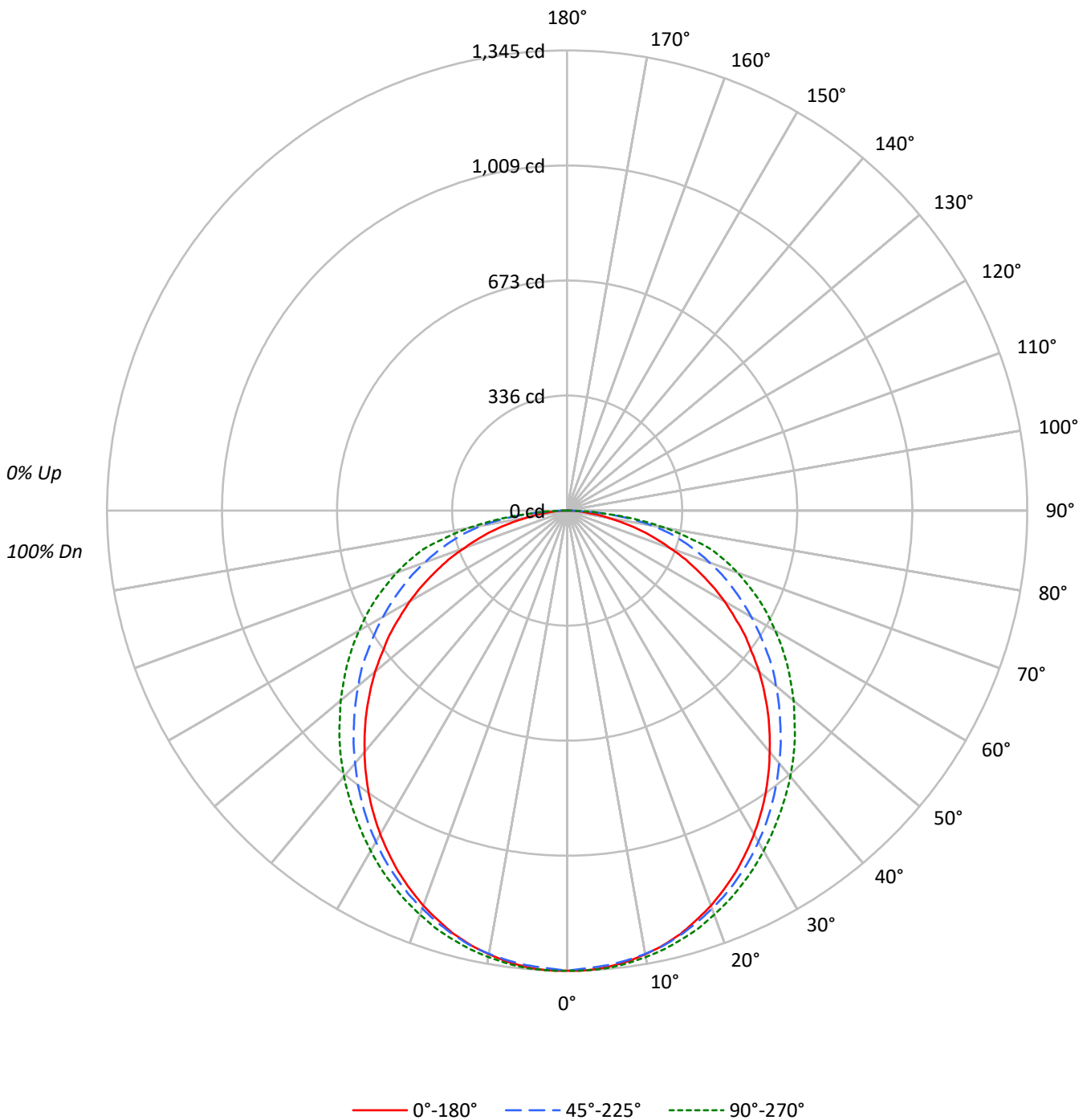
Input Watts (W): 29.109
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1810	1810	1810
5°	1810	1802	1813
10°	1799	1798	1810
15°	1784	1788	1807
20°	1759	1773	1800
25°	1731	1757	1792
30°	1697	1737	1785
35°	1660	1715	1779
40°	1618	1693	1782
45°	1577	1677	1791
50°	1534	1668	1808
55°	1487	1666	1841
60°	1428	1673	1889
65°	1354	1699	1971
70°	1257	1741	2083
75°	1147	1828	2259
80°	943	1968	2259
85°	722	1817	1941



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.2	3.2
10°-20°	363.2	9.1
20°-30°	546.5	13.6
30°-40°	655.0	16.3
40°-50°	682.5	17.0
50°-60°	635.0	15.9
60°-70°	523.0	13.1
70°-80°	356.2	8.9
80°-90°	117.6	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°	1036.9	25.9
0°-40°	1691.9	42.2
0°-60°	3009.5	75.1
0°-90°	4006.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4006.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1345	1345	1345	1345	1345	
5°	1340	1340	1334	1341	1342	127
15°	1281	1282	1284	1296	1297	361
25°	1166	1171	1183	1203	1207	537
35°	1011	1023	1044	1072	1083	632
45°	829	846	881	925	941	639
55°	634	655	710	766	785	565
65°	425	461	534	596	619	422
75°	221	270	352	414	435	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°	1345.1	1345.1	1345.1	1345.1	1345.1
2.5°	1345.1	1345.1	1338.4	1345.1	1345.1
5°	1339.8	1339.8	1334.4	1341.1	1342.4
7.5°	1330.4	1331.7	1326.4	1334.4	1335.7
10°	1317.0	1318.4	1315.7	1323.7	1325.0
12.5°	1301.0	1302.3	1302.3	1311.7	1313.0
15°	1280.9	1282.3	1283.6	1295.6	1297.0
17.5°	1255.5	1259.5	1262.2	1276.9	1279.6
20°	1228.8	1232.8	1238.1	1254.2	1256.9
22.5°	1198.0	1203.4	1212.7	1230.1	1234.1
25°	1165.9	1171.3	1183.3	1203.4	1207.4
27.5°	1129.8	1137.9	1152.6	1174.0	1179.3
30°	1092.4	1100.4	1117.8	1140.5	1148.6
32.5°	1052.3	1063.0	1083.0	1108.4	1116.5
35°	1010.8	1022.9	1044.3	1072.3	1083.0
37.5°	966.7	980.1	1005.5	1036.2	1049.6
40°	921.2	937.3	964.0	1000.1	1014.8
42.5°	875.8	890.5	923.9	962.7	978.7
45°	829.0	846.4	881.1	925.3	941.3
47.5°	780.9	798.2	839.7	886.5	901.2
50°	732.7	750.1	796.9	846.4	863.8
52.5°	680.6	703.3	756.8	806.3	823.6
55°	633.8	655.2	710.0	766.1	784.9
57.5°	580.3	605.7	665.9	724.7	744.8
60°	530.8	557.6	621.7	681.9	702.0
62.5°	480.0	509.4	577.6	639.1	661.9
65°	425.2	461.3	533.5	596.3	619.1
67.5°	375.7	413.2	489.4	553.6	573.6
70°	319.6	365.0	442.6	506.8	529.5
72.5°	271.4	316.9	398.5	461.3	484.0
75°	220.6	270.1	351.7	414.5	434.6
77.5°	169.8	224.6	306.2	354.3	361.0
80°	121.7	179.2	254.0	282.1	291.5
82.5°	85.6	137.7	187.2	205.9	211.3
85°	46.8	90.9	117.7	125.7	125.7
87.5°	20.1	38.8	46.8	48.1	49.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)