

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: P345049

Luminaire Tested: **24CZ-40-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345049
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-40-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.8 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

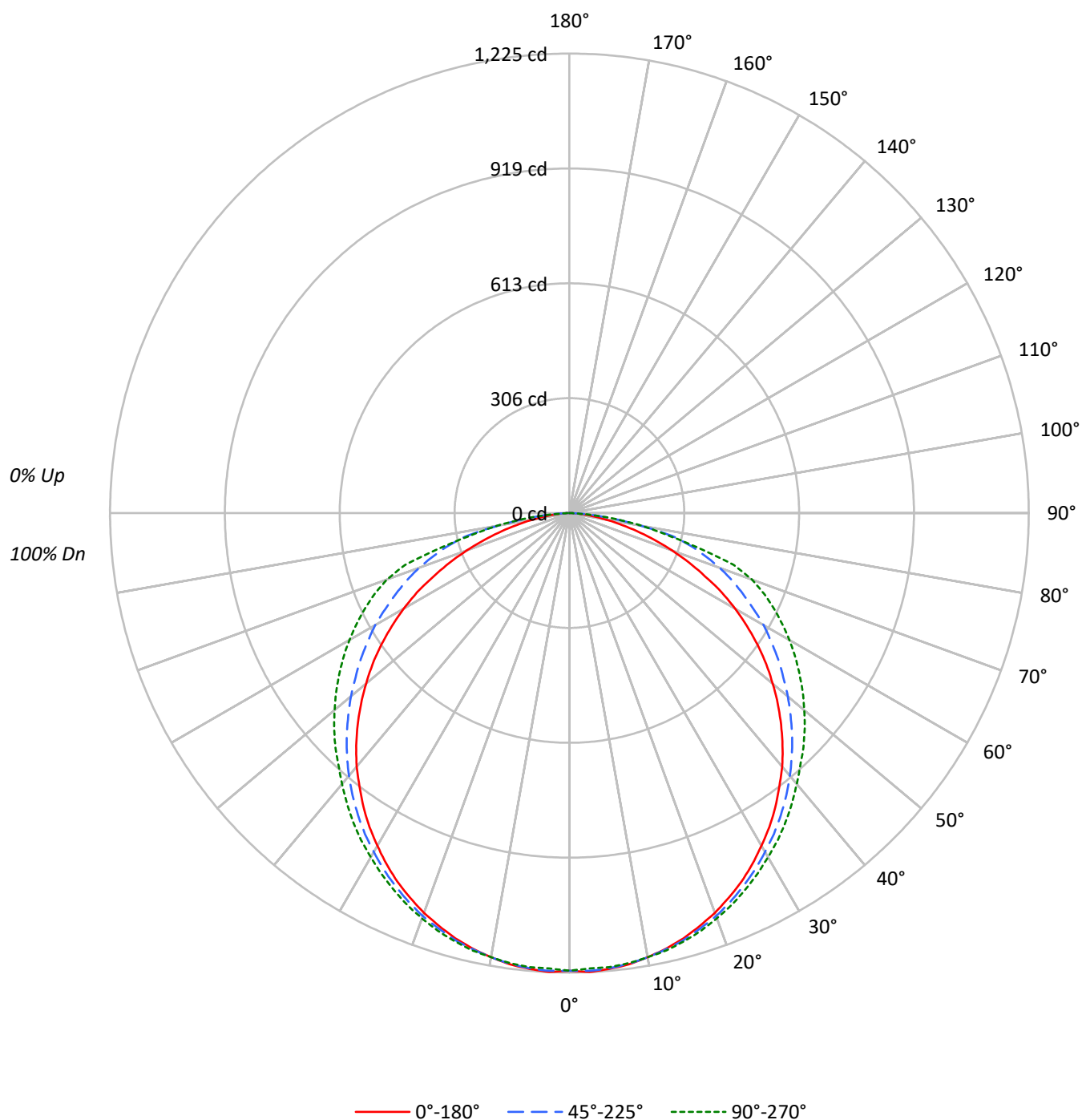
Input Watts (W): 29
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	31	42	35	30	41	35	30
9	55	42	33	28	54	41	33	28	40	33	27	39	32	27	38	32	27
10	52	38	30	25	51	38	30	25	37	30	25	36	29	25	35	29	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1641	1641	1641
5°	1648	1645	1641
10°	1643	1643	1643
15°	1635	1642	1646
20°	1624	1637	1646
25°	1610	1629	1646
30°	1591	1621	1646
35°	1573	1614	1651
40°	1550	1606	1656
45°	1519	1598	1680
50°	1481	1591	1711
55°	1436	1593	1757
60°	1374	1609	1823
65°	1271	1625	1914
70°	1145	1677	2033
75°	967	1728	1819
80°	752	1479	1528
85°	540	1007	885



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.6	3.1
10°-20°	332.0	8.9
20°-30°	504.9	13.6
30°-40°	613.5	16.5
40°-50°	647.5	17.4
50°-60°	608.4	16.4
60°-70°	500.9	13.5
70°-80°	315.5	8.5
80°-90°	74.5	2.0
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°	952.6	25.7
0°-40°	1566.0	42.2
0°-60°	2821.9	76.0
0°-90°	3712.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3712.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1220	1220	1220	1220	1220	
5°	1220	1214	1218	1217	1215	116
15°	1174	1169	1178	1182	1182	331
25°	1085	1083	1097	1104	1108	500
35°	957	962	983	996	1005	599
45°	798	811	840	864	883	616
55°	612	635	679	727	749	547
65°	399	437	510	576	601	396
75°	186	243	332	363	350	199
85°	35	59	65	60	57	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1219.9	1219.9	1219.9	1219.9	1219.9
2.5°	1224.6	1216.7	1221.5	1219.9	1215.1
5°	1219.9	1213.5	1218.3	1216.7	1215.1
7.5°	1213.5	1207.1	1211.9	1210.3	1210.3
10°	1202.4	1197.6	1202.4	1202.4	1202.4
12.5°	1189.6	1184.9	1191.2	1192.8	1194.4
15°	1173.7	1169.0	1178.5	1181.7	1181.7
17.5°	1154.7	1151.5	1161.0	1164.2	1167.4
20°	1134.0	1132.4	1143.5	1146.7	1149.9
22.5°	1110.1	1110.1	1121.3	1124.4	1130.8
25°	1084.7	1083.1	1097.4	1103.8	1108.5
27.5°	1056.0	1056.0	1072.0	1079.9	1084.7
30°	1024.2	1027.4	1043.3	1052.9	1059.2
32.5°	992.4	995.6	1014.7	1025.8	1033.8
35°	957.4	962.2	982.9	995.6	1005.2
37.5°	919.3	927.2	949.5	963.8	974.9
40°	882.7	889.1	914.5	930.4	943.1
42.5°	841.3	852.5	877.9	897.0	911.3
45°	798.4	811.1	839.8	863.6	882.7
47.5°	753.9	769.8	800.0	831.8	850.9
50°	707.7	725.2	760.2	798.4	817.5
52.5°	661.6	680.7	718.9	763.4	784.1
55°	612.3	634.6	679.1	726.8	749.1
57.5°	561.4	586.9	637.8	691.8	714.1
60°	510.5	537.6	598.0	652.1	677.5
62.5°	458.0	488.3	553.5	615.5	639.4
65°	399.2	437.4	510.5	575.7	601.2
67.5°	345.1	384.9	469.2	534.4	561.4
70°	291.0	337.2	426.2	491.4	516.9
72.5°	237.0	291.0	378.5	445.3	459.6
75°	186.1	243.3	332.4	362.6	349.9
77.5°	136.8	200.4	279.9	264.0	260.8
80°	97.0	159.0	190.9	192.4	197.2
82.5°	62.0	117.7	124.1	125.6	127.2
85°	35.0	58.8	65.2	60.4	57.3
87.5°	15.9	19.1	15.9	11.1	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)