

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: P345054

Luminaire Tested: **24CZ-50-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345054
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-50-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4195.8 lumens
Efficiency: N/A
Efficacy: 103.1 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

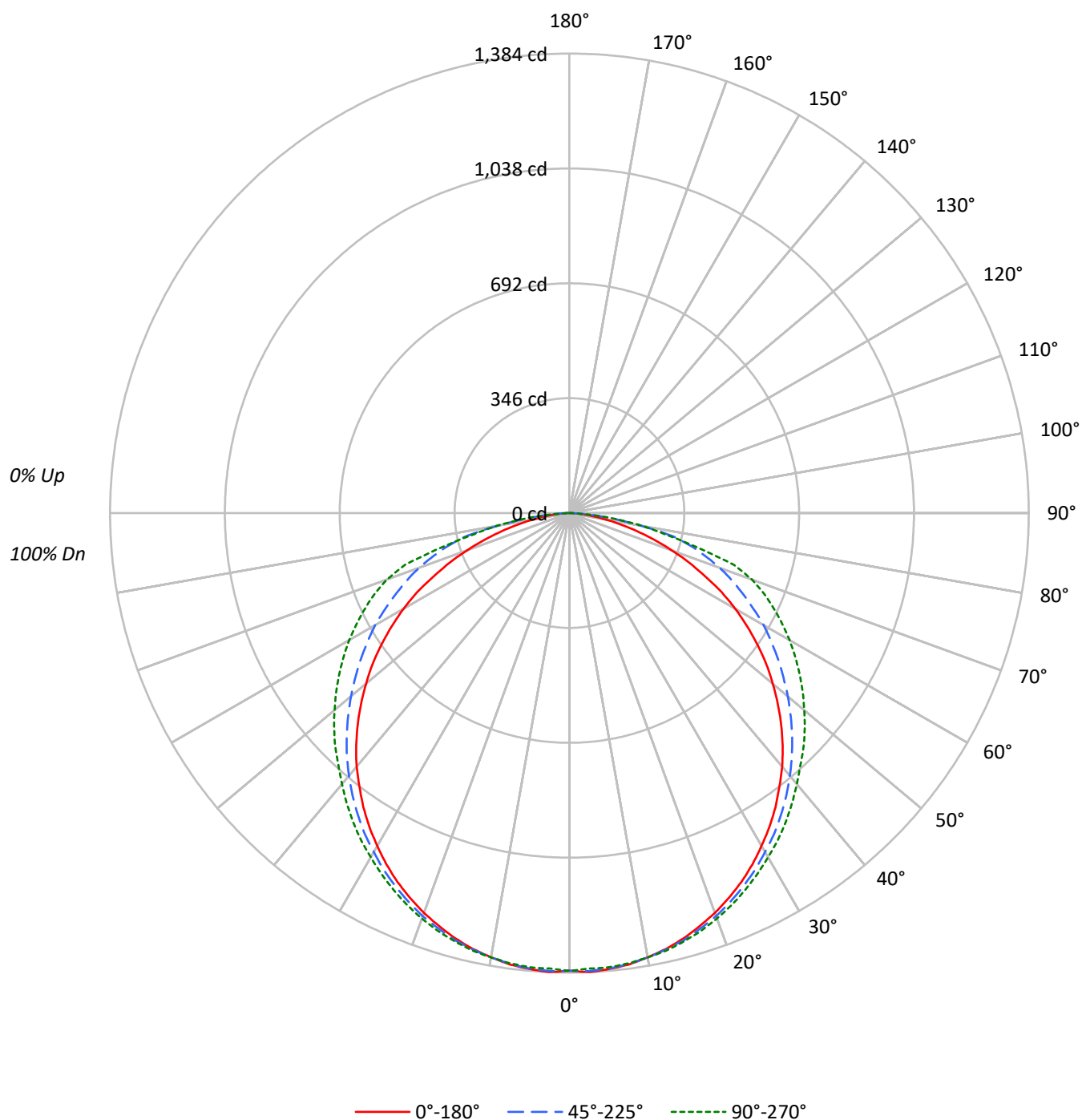
Input Watts (W): 40.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					10
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°	1855	1855	1855
5°	1862	1860	1855
10°	1856	1856	1856
15°	1848	1855	1860
20°	1835	1850	1861
25°	1820	1841	1860
30°	1798	1832	1860
35°	1777	1825	1866
40°	1752	1815	1872
45°	1717	1806	1898
50°	1674	1798	1934
55°	1623	1800	1986
60°	1552	1819	2060
65°	1436	1837	2163
70°	1294	1895	2298
75°	1093	1953	2056
80°	849	1671	1727
85°	610	1138	999



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.7	3.1
10°-20°	375.2	8.9
20°-30°	570.6	13.6
30°-40°	693.3	16.5
40°-50°	731.7	17.4
50°-60°	687.5	16.4
60°-70°	566.0	13.5
70°-80°	356.6	8.5
80°-90°	84.2	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°	1076.5	25.7
0°-40°	1769.7	42.2
0°-60°	3189.0	76.0
0°-90°	4195.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4195.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1379	1379	1379	1379	1379	
5°	1379	1371	1377	1375	1373	131
15°	1326	1321	1332	1335	1335	374
25°	1226	1224	1240	1247	1253	565
35°	1082	1087	1111	1125	1136	676
45°	902	917	949	976	998	696
55°	692	717	768	821	846	618
65°	451	494	577	651	679	448
75°	210	275	376	410	395	224
85°	40	66	74	68	65	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1378.6	1378.6	1378.6	1378.6	1378.6
2.5°	1383.9	1375.0	1380.4	1378.6	1373.2
5°	1378.6	1371.4	1376.8	1375.0	1373.2
7.5°	1371.4	1364.2	1369.6	1367.8	1367.8
10°	1358.8	1353.4	1358.8	1358.8	1358.8
12.5°	1344.4	1339.0	1346.2	1348.0	1349.8
15°	1326.4	1321.0	1331.8	1335.4	1335.4
17.5°	1304.9	1301.3	1312.1	1315.6	1319.2
20°	1281.5	1279.7	1292.3	1295.9	1299.5
22.5°	1254.5	1254.5	1267.1	1270.7	1277.9
25°	1225.8	1224.0	1240.2	1247.3	1252.7
27.5°	1193.4	1193.4	1211.4	1220.4	1225.8
30°	1157.5	1161.1	1179.0	1189.8	1197.0
32.5°	1121.5	1125.1	1146.7	1159.3	1168.3
35°	1082.0	1087.4	1110.8	1125.1	1135.9
37.5°	1038.9	1047.8	1073.0	1089.2	1101.8
40°	997.5	1004.7	1033.5	1051.4	1065.8
42.5°	950.8	963.4	992.1	1013.7	1029.9
45°	902.3	916.6	949.0	976.0	997.5
47.5°	851.9	869.9	904.1	940.0	961.6
50°	799.8	819.6	859.1	902.3	923.8
52.5°	747.7	769.3	812.4	862.7	886.1
55°	692.0	717.1	767.5	821.4	846.5
57.5°	634.5	663.2	720.7	781.8	807.0
60°	576.9	607.5	675.8	736.9	765.7
62.5°	517.6	551.8	625.5	695.6	722.5
65°	451.1	494.3	576.9	650.6	679.4
67.5°	390.0	435.0	530.2	603.9	634.5
70°	328.9	381.0	481.7	555.4	584.1
72.5°	267.8	328.9	427.8	503.3	519.4
75°	210.3	275.0	375.6	409.8	395.4
77.5°	154.6	226.5	316.3	298.4	294.8
80°	109.6	179.7	215.7	217.5	222.9
82.5°	70.1	133.0	140.2	142.0	143.8
85°	39.5	66.5	73.7	68.3	64.7
87.5°	18.0	21.6	18.0	12.6	10.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)