

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: P345095

Luminaire Tested: **24CZ-50SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345095
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-50SE-L835-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4317.2 lumens
Efficiency: N/A
Efficacy: 92.6 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

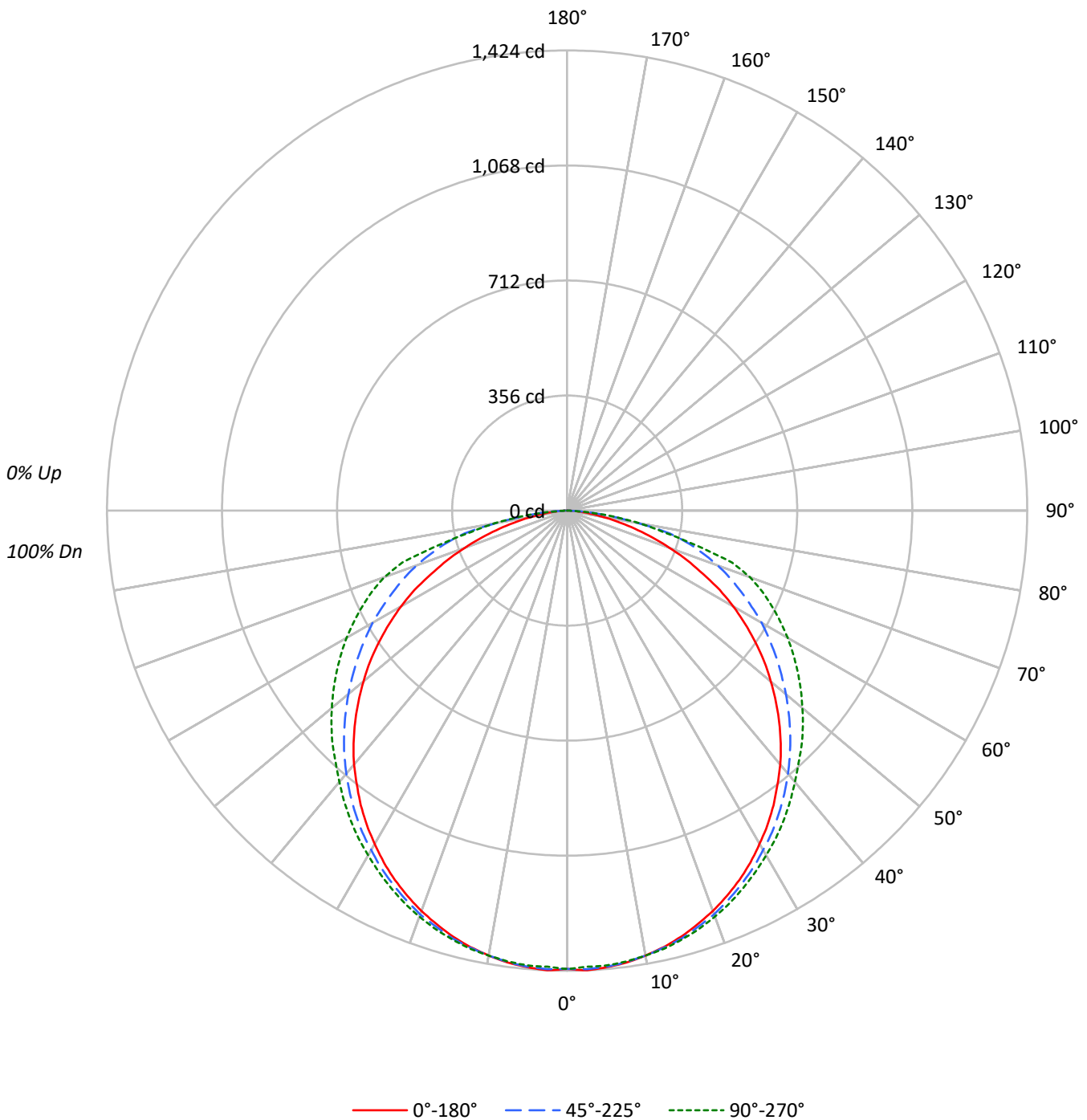
Input Watts (W): 46.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1908	1908	1908
5°	1916	1913	1908
10°	1910	1910	1910
15°	1901	1909	1914
20°	1888	1904	1915
25°	1872	1894	1914
30°	1850	1885	1914
35°	1829	1877	1920
40°	1803	1868	1926
45°	1767	1858	1953
50°	1723	1850	1990
55°	1670	1852	2043
60°	1597	1871	2120
65°	1478	1890	2225
70°	1331	1950	2364
75°	1125	2009	2115
80°	874	1719	1777
85°	628	1170	1028



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.4	3.1
10°-20°	386.1	8.9
20°-30°	587.1	13.6
30°-40°	713.3	16.5
40°-50°	752.9	17.4
50°-60°	707.4	16.4
60°-70°	582.4	13.5
70°-80°	366.9	8.5
80°-90°	86.6	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°	1107.6	25.7
0°-40°	1821.0	42.2
0°-60°	3281.2	76.0
0°-90°	4317.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4317.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1418	1418	1418	1418	1418	
5°	1418	1411	1417	1415	1413	135
15°	1365	1359	1370	1374	1374	385
25°	1261	1259	1276	1283	1289	581
35°	1113	1119	1143	1158	1169	696
45°	928	943	976	1004	1026	716
55°	712	738	790	845	871	636
65°	464	509	594	670	699	461
75°	216	283	386	422	407	231
85°	41	68	76	70	67	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1418.4	1418.4	1418.4	1418.4	1418.4
2.5°	1424.0	1414.7	1420.3	1418.4	1412.9
5°	1418.4	1411.0	1416.6	1414.7	1412.9
7.5°	1411.0	1403.6	1409.2	1407.3	1407.3
10°	1398.1	1392.5	1398.1	1398.1	1398.1
12.5°	1383.3	1377.7	1385.1	1387.0	1388.8
15°	1364.8	1359.3	1370.4	1374.1	1374.1
17.5°	1342.6	1338.9	1350.0	1353.7	1357.4
20°	1318.6	1316.7	1329.7	1333.4	1337.1
22.5°	1290.8	1290.8	1303.8	1307.5	1314.9
25°	1261.2	1259.4	1276.0	1283.4	1289.0
27.5°	1228.0	1228.0	1246.4	1255.7	1261.2
30°	1191.0	1194.7	1213.2	1224.3	1231.7
32.5°	1154.0	1157.7	1179.9	1192.8	1202.1
35°	1113.3	1118.8	1142.9	1157.7	1168.8
37.5°	1068.9	1078.2	1104.0	1120.7	1133.6
40°	1026.4	1033.8	1063.4	1081.9	1096.7
42.5°	978.3	991.2	1020.8	1043.0	1059.7
45°	928.4	943.2	976.4	1004.2	1026.4
47.5°	876.6	895.1	930.2	967.2	989.4
50°	823.0	843.3	884.0	928.4	950.6
52.5°	769.3	791.5	835.9	887.7	911.7
55°	712.0	737.9	789.7	845.1	871.0
57.5°	652.8	682.4	741.6	804.5	830.3
60°	593.6	625.1	695.3	758.2	787.8
62.5°	532.6	567.7	643.6	715.7	743.4
65°	464.2	508.6	593.6	669.5	699.0
67.5°	401.3	447.5	545.6	621.4	652.8
70°	338.4	392.1	495.6	571.4	601.0
72.5°	275.5	338.4	440.1	517.8	534.5
75°	216.4	282.9	386.5	421.6	406.9
77.5°	159.0	233.0	325.5	307.0	303.3
80°	112.8	184.9	221.9	223.8	229.3
82.5°	72.1	136.9	144.2	146.1	147.9
85°	40.7	68.4	75.8	70.3	66.6
87.5°	18.5	22.2	18.5	12.9	11.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)