

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: P345066

Luminaire Tested: **24CZ-65-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345066
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-65-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5533.5 lumens
Efficiency: N/A
Efficacy: 96.1 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

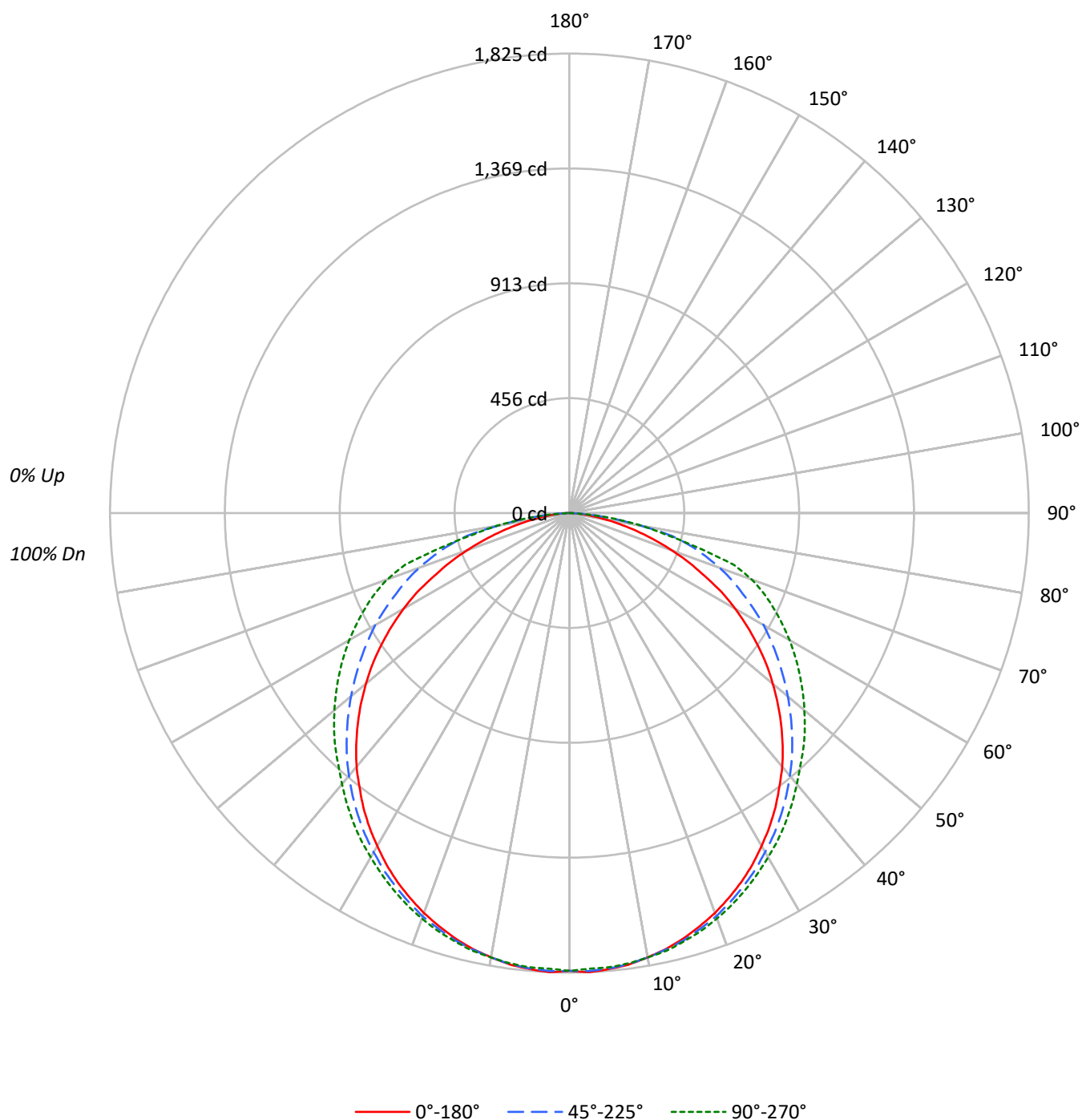
Input Watts (W): 57.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		68
3	89	78	70	63	86	76	69	62	73	67	61		71	65	60		57
4	81	69	60	53	79	68	59	52	65	58	52		63	56	51		48
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		41
6	69	55	46	39	67	54	45	39	52	45	39		51	44	38		36
7	64	50	41	35	62	49	41	34	48	40	34		46	39	34		32
8	59	45	37	31	58	45	36	31	43	36	31		42	35	30		28
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		25
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2446	2446	2446
5°	2456	2452	2446
10°	2448	2448	2448
15°	2437	2447	2453
20°	2420	2440	2454
25°	2400	2428	2453
30°	2372	2416	2453
35°	2344	2406	2461
40°	2311	2394	2469
45°	2264	2382	2503
50°	2208	2372	2550
55°	2141	2374	2619
60°	2048	2398	2717
65°	1894	2422	2853
70°	1707	2499	3031
75°	1442	2575	2711
80°	1120	2204	2277
85°	804	1501	1317



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	3.1
10°-20°	494.8	8.9
20°-30°	752.5	13.6
30°-40°	914.3	16.5
40°-50°	965.0	17.4
50°-60°	906.7	16.4
60°-70°	746.5	13.5
70°-80°	470.3	8.5
80°-90°	111.0	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°	1419.7	25.7
0°-40°	2334.0	42.2
0°-60°	4205.7	76.0
0°-90°	5533.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5533.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1818	1818	1818	1818	1818	
5°	1818	1809	1816	1813	1811	173
15°	1749	1742	1756	1761	1761	493
25°	1617	1614	1636	1645	1652	745
35°	1427	1434	1465	1484	1498	892
45°	1190	1209	1252	1287	1316	917
55°	913	946	1012	1083	1116	815
65°	595	652	761	858	896	591
75°	277	363	495	540	522	296
85°	52	88	97	90	85	65
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1818.1	1818.1	1818.1	1818.1	1818.1
2.5°	1825.2	1813.3	1820.5	1818.1	1811.0
5°	1818.1	1808.6	1815.7	1813.3	1811.0
7.5°	1808.6	1799.1	1806.2	1803.9	1803.9
10°	1792.0	1784.9	1792.0	1792.0	1792.0
12.5°	1773.0	1765.9	1775.4	1777.8	1780.2
15°	1749.3	1742.2	1756.5	1761.2	1761.2
17.5°	1720.9	1716.2	1730.4	1735.1	1739.9
20°	1690.1	1687.7	1704.3	1709.0	1713.8
22.5°	1654.5	1654.5	1671.1	1675.9	1685.3
25°	1616.6	1614.2	1635.6	1645.0	1652.2
27.5°	1573.9	1573.9	1597.6	1609.5	1616.6
30°	1526.5	1531.3	1555.0	1569.2	1578.7
32.5°	1479.1	1483.9	1512.3	1528.9	1540.7
35°	1427.0	1434.1	1464.9	1483.9	1498.1
37.5°	1370.1	1381.9	1415.1	1436.5	1453.0
40°	1315.6	1325.0	1363.0	1386.7	1405.6
42.5°	1253.9	1270.5	1308.5	1336.9	1358.2
45°	1189.9	1208.9	1251.6	1287.1	1315.6
47.5°	1123.6	1147.3	1192.3	1239.7	1268.2
50°	1054.8	1080.9	1133.0	1189.9	1218.4
52.5°	986.1	1014.5	1071.4	1137.8	1168.6
55°	912.6	945.8	1012.2	1083.3	1116.5
57.5°	836.7	874.7	950.5	1031.1	1064.3
60°	760.9	801.2	891.3	971.9	1009.8
62.5°	682.7	727.7	824.9	917.3	952.9
65°	595.0	651.9	760.9	858.1	896.0
67.5°	514.4	573.6	699.3	796.4	836.7
70°	433.8	502.5	635.3	732.4	770.4
72.5°	353.2	433.8	564.2	663.7	685.0
75°	277.3	362.7	495.4	540.4	521.5
77.5°	203.9	298.7	417.2	393.5	388.7
80°	144.6	237.0	284.4	286.8	293.9
82.5°	92.4	175.4	184.9	187.3	189.6
85°	52.1	87.7	97.2	90.1	85.3
87.5°	23.7	28.4	23.7	16.6	14.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)