

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: P345109

Luminaire Tested: **24CZ-65SE-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345109
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-65SE-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6122.6 lumens
Efficiency: N/A
Efficacy: 102.7 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

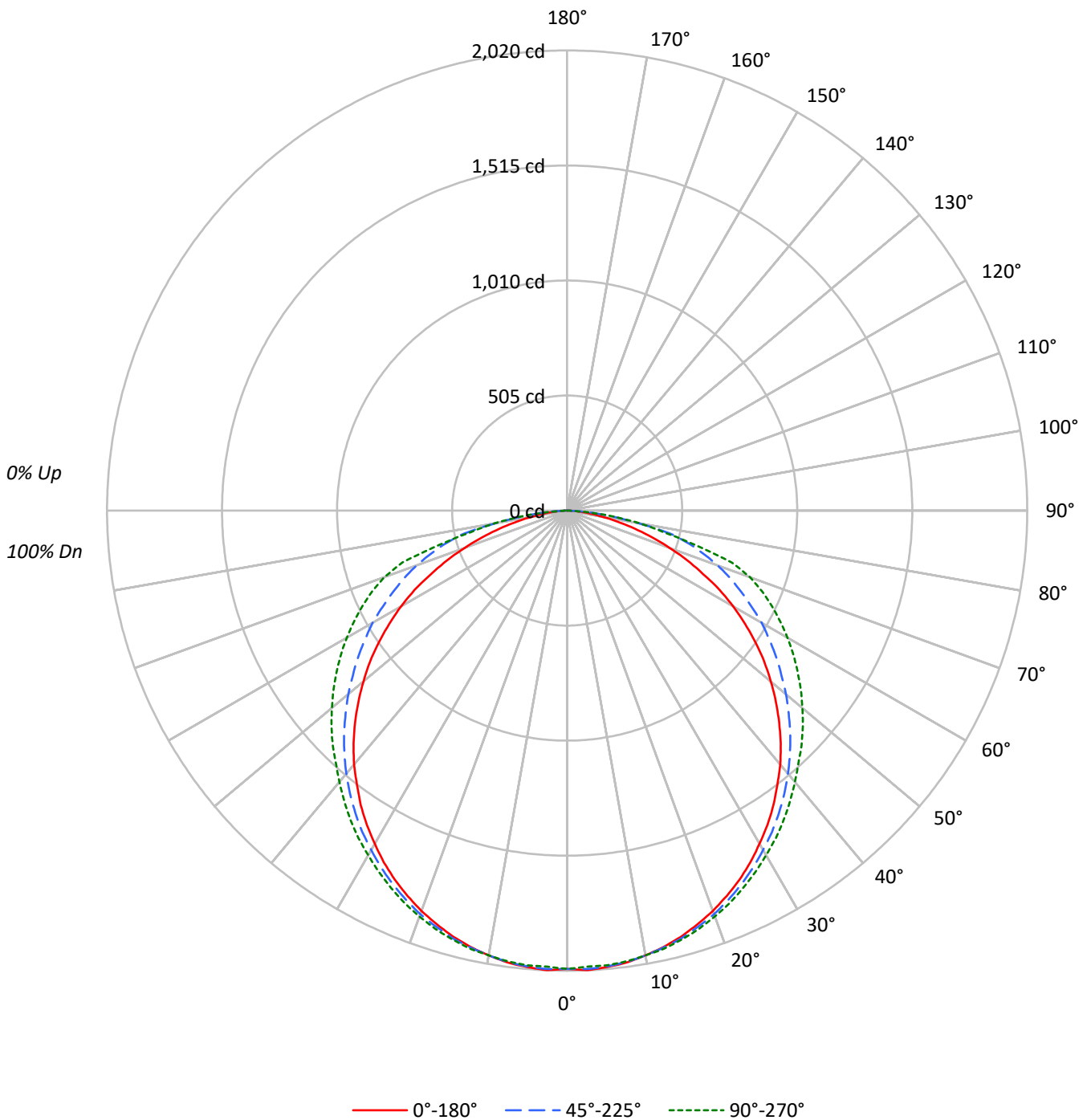
Input Watts (W): 59.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83
2	98	89	82	76	95	87	81	75	84	78	74	81	76	72	77	74	70	68
3	89	78	70	63	86	76	69	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	68	59	52	65	58	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	52	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	45	39	51	44	38	49	43	38	36
7	64	50	41	35	62	49	41	34	48	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	31	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°	2707	2707	2707
5°	2717	2713	2706
10°	2709	2709	2709
15°	2696	2707	2714
20°	2678	2700	2715
25°	2655	2687	2714
30°	2624	2673	2714
35°	2593	2662	2723
40°	2557	2649	2732
45°	2505	2635	2770
50°	2443	2624	2822
55°	2369	2627	2898
60°	2266	2654	3007
65°	2096	2680	3156
70°	1888	2765	3353
75°	1595	2850	3000
80°	1240	2438	2520
85°	891	1660	1457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.7	3.1
10°-20°	547.5	8.9
20°-30°	832.6	13.6
30°-40°	1011.6	16.5
40°-50°	1067.7	17.4
50°-60°	1003.3	16.4
60°-70°	825.9	13.5
70°-80°	520.4	8.5
80°-90°	122.9	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°	1570.9	25.7
0°-40°	2582.5	42.2
0°-60°	4653.5	76.0
0°-90°	6122.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	6122.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2012	2012	2012	2012	2012	
5°	2012	2001	2009	2006	2004	191
15°	1936	1928	1943	1949	1949	546
25°	1789	1786	1810	1820	1828	824
35°	1579	1587	1621	1642	1658	987
45°	1317	1338	1385	1424	1456	1015
55°	1010	1046	1120	1199	1235	901
65°	658	721	842	949	991	654
75°	307	401	548	598	577	328
85°	58	97	108	100	94	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2011.6	2011.6	2011.6	2011.6	2011.6
2.5°	2019.5	2006.4	2014.3	2011.6	2003.8
5°	2011.6	2001.1	2009.0	2006.4	2003.8
7.5°	2001.1	1990.7	1998.5	1995.9	1995.9
10°	1982.8	1974.9	1982.8	1982.8	1982.8
12.5°	1961.8	1953.9	1964.4	1967.0	1969.7
15°	1935.6	1927.7	1943.4	1948.7	1948.7
17.5°	1904.1	1898.9	1914.6	1919.8	1925.1
20°	1870.0	1867.4	1885.7	1891.0	1896.2
22.5°	1830.7	1830.7	1849.0	1854.3	1864.8
25°	1788.7	1786.1	1809.7	1820.2	1828.0
27.5°	1741.5	1741.5	1767.7	1780.8	1788.7
30°	1689.0	1694.3	1720.5	1736.2	1746.7
32.5°	1636.6	1641.8	1673.3	1691.7	1704.8
35°	1578.9	1586.8	1620.8	1641.8	1657.6
37.5°	1515.9	1529.1	1565.8	1589.4	1607.7
40°	1455.6	1466.1	1508.1	1534.3	1555.3
42.5°	1387.4	1405.8	1447.7	1479.2	1502.8
45°	1316.6	1337.6	1384.8	1424.1	1455.6
47.5°	1243.2	1269.4	1319.2	1371.7	1403.2
50°	1167.1	1196.0	1253.7	1316.6	1348.1
52.5°	1091.1	1122.5	1185.5	1258.9	1293.0
55°	1009.8	1046.5	1119.9	1198.6	1235.3
57.5°	925.8	967.8	1051.7	1140.9	1177.6
60°	841.9	886.5	986.1	1075.3	1117.3
62.5°	755.3	805.2	912.7	1015.0	1054.3
65°	658.3	721.3	841.9	949.4	991.4
67.5°	569.1	634.7	773.7	881.2	925.8
70°	480.0	556.0	702.9	810.4	852.4
72.5°	390.8	480.0	624.2	734.4	758.0
75°	306.9	401.3	548.2	598.0	577.0
77.5°	225.6	330.5	461.6	435.4	430.1
80°	160.0	262.3	314.7	317.4	325.2
82.5°	102.3	194.1	204.6	207.2	209.8
85°	57.7	97.0	107.5	99.7	94.4
87.5°	26.2	31.5	26.2	18.4	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)