

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: P345061

Luminaire Tested: **24CZ-55-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345061
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-55-L850-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5154.9 lumens
Efficiency: N/A
Efficacy: 112.6 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

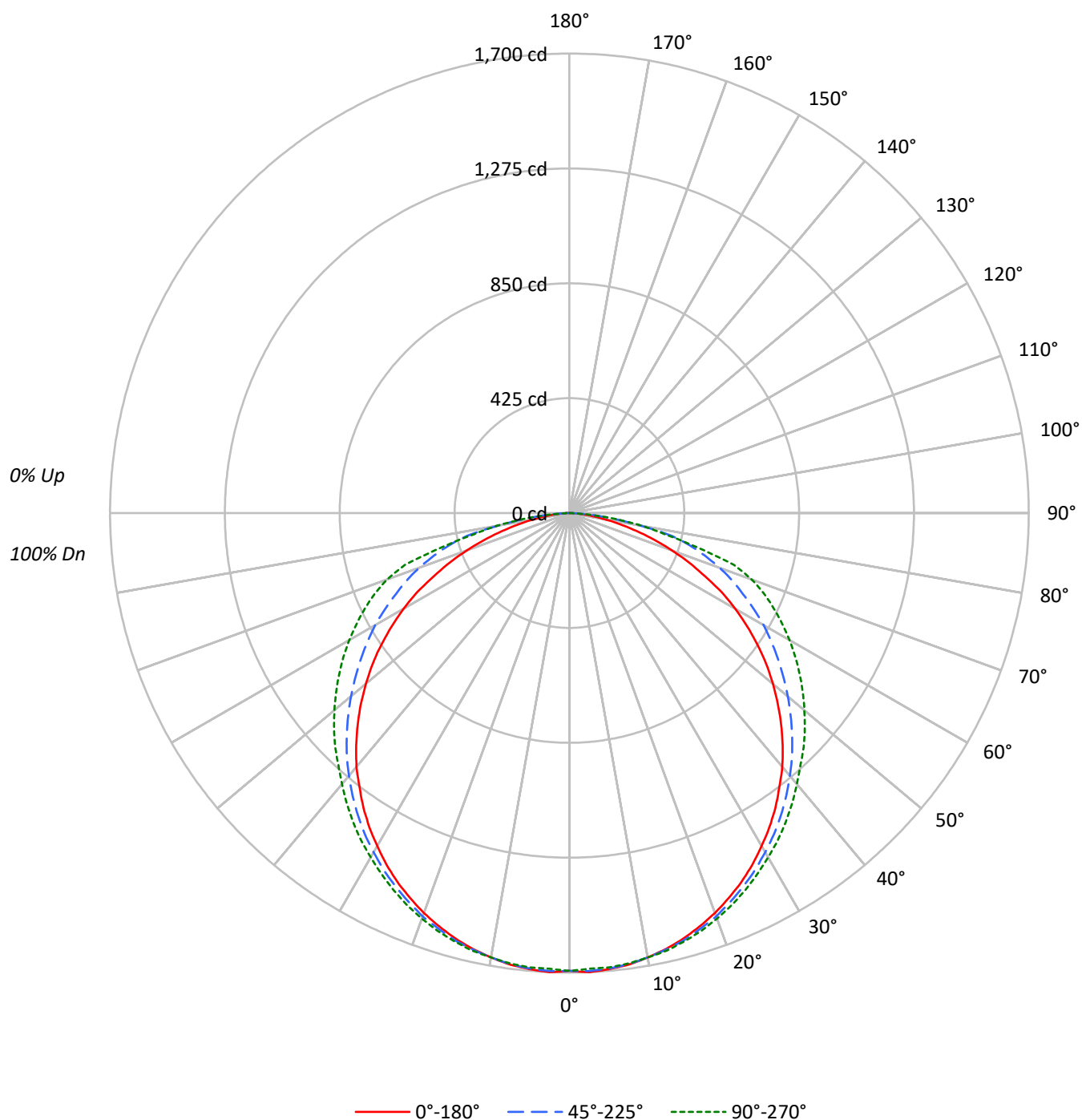
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2279	2279	2279
5°	2288	2285	2279
10°	2281	2281	2281
15°	2270	2279	2285
20°	2254	2273	2286
25°	2236	2262	2285
30°	2209	2251	2285
35°	2183	2242	2292
40°	2153	2230	2300
45°	2109	2218	2332
50°	2057	2209	2376
55°	1994	2212	2440
60°	1907	2234	2531
65°	1765	2257	2657
70°	1590	2328	2823
75°	1343	2399	2525
80°	1044	2053	2122
85°	750	1397	1227



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	3.1
10°-20°	461.0	8.9
20°-30°	701.1	13.6
30°-40°	851.7	16.5
40°-50°	899.0	17.4
50°-60°	844.7	16.4
60°-70°	695.4	13.5
70°-80°	438.1	8.5
80°-90°	103.4	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°	1322.6	25.7
0°-40°	2174.3	42.2
0°-60°	3918.0	76.0
0°-90°	5154.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5154.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1694	1694	1694	1694	1694	
5°	1694	1685	1692	1689	1687	161
15°	1630	1623	1636	1641	1641	460
25°	1506	1504	1524	1532	1539	694
35°	1329	1336	1365	1382	1396	831
45°	1108	1126	1166	1199	1226	855
55°	850	881	943	1009	1040	759
65°	554	607	709	799	835	550
75°	258	338	462	504	486	276
85°	49	82	90	84	80	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1693.7	1693.7	1693.7	1693.7	1693.7
2.5°	1700.3	1689.3	1695.9	1693.7	1687.1
5°	1693.7	1684.9	1691.5	1689.3	1687.1
7.5°	1684.9	1676.0	1682.7	1680.4	1680.4
10°	1669.4	1662.8	1669.4	1669.4	1669.4
12.5°	1651.7	1645.1	1654.0	1656.2	1658.4
15°	1629.7	1623.0	1636.3	1640.7	1640.7
17.5°	1603.2	1598.7	1612.0	1616.4	1620.8
20°	1574.5	1572.2	1587.7	1592.1	1596.5
22.5°	1541.3	1541.3	1556.8	1561.2	1570.0
25°	1506.0	1503.8	1523.7	1532.5	1539.1
27.5°	1466.3	1466.3	1488.3	1499.4	1506.0
30°	1422.1	1426.5	1448.6	1461.8	1470.7
32.5°	1377.9	1382.3	1408.8	1424.3	1435.3
35°	1329.3	1336.0	1364.7	1382.3	1395.6
37.5°	1276.3	1287.4	1318.3	1338.2	1353.6
40°	1225.6	1234.4	1269.7	1291.8	1309.5
42.5°	1168.1	1183.6	1218.9	1245.4	1265.3
45°	1108.5	1126.2	1165.9	1199.1	1225.6
47.5°	1046.7	1068.8	1110.7	1154.9	1181.4
50°	982.7	1006.9	1055.5	1108.5	1135.0
52.5°	918.6	945.1	998.1	1059.9	1088.6
55°	850.2	881.1	942.9	1009.2	1040.1
57.5°	779.5	814.8	885.5	960.6	991.5
60°	708.8	746.4	830.3	905.4	940.7
62.5°	636.0	677.9	768.5	854.6	887.7
65°	554.3	607.3	708.8	799.4	834.7
67.5°	479.2	534.4	651.4	742.0	779.5
70°	404.1	468.1	591.8	682.3	717.7
72.5°	329.0	404.1	525.6	618.3	638.2
75°	258.4	337.9	461.5	503.5	485.8
77.5°	189.9	278.2	388.6	366.6	362.1
80°	134.7	220.8	265.0	267.2	273.8
82.5°	86.1	163.4	172.2	174.4	176.7
85°	48.6	81.7	90.5	83.9	79.5
87.5°	22.1	26.5	22.1	15.5	13.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)