

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: P345060

Luminaire Tested: **24CZ-55-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345060
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-L840-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4765.4 lumens
Efficiency: N/A
Efficacy: 104.0 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

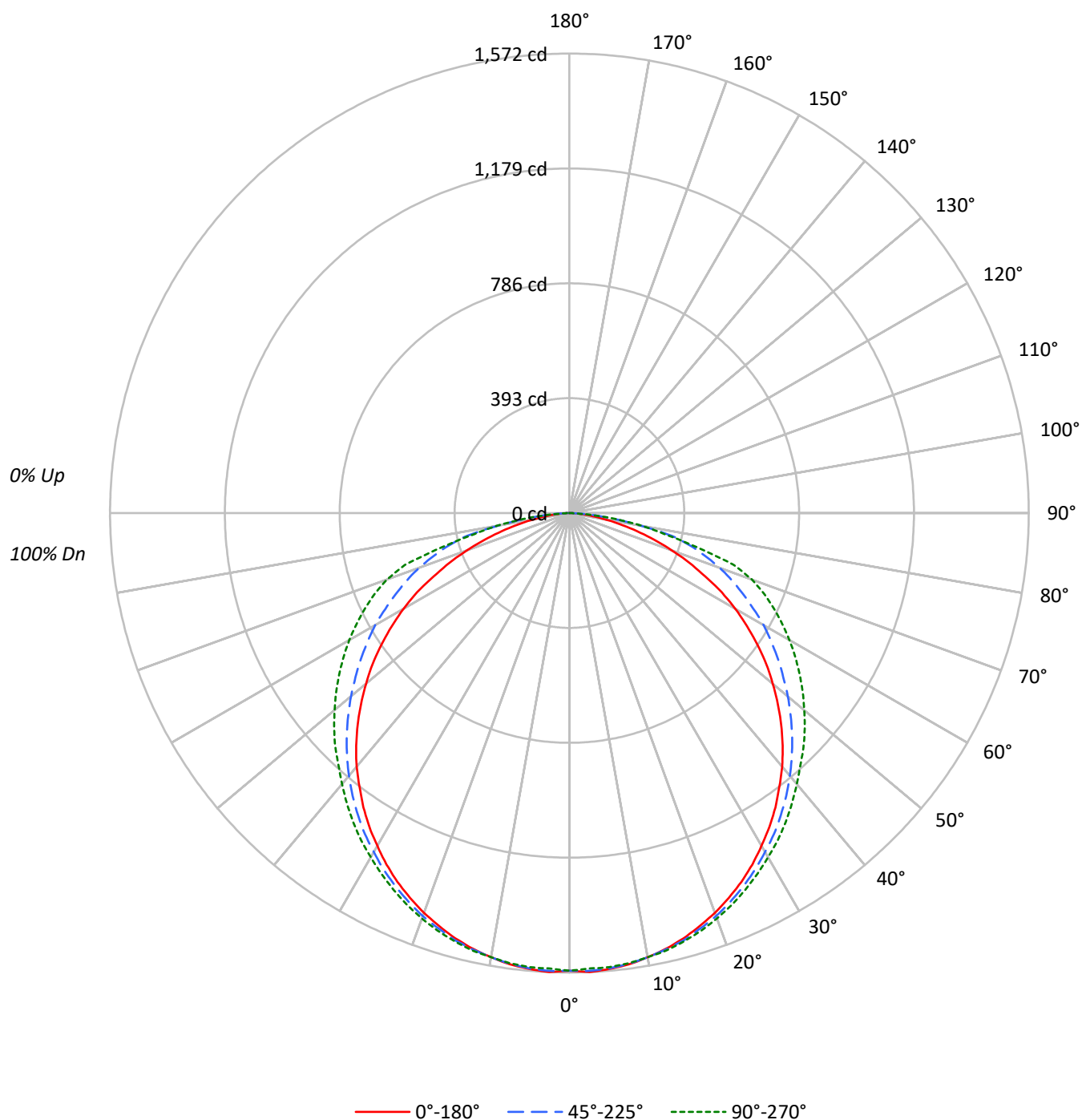
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	2107	2107	2107
5°	2115	2112	2106
10°	2108	2108	2108
15°	2098	2107	2113
20°	2084	2102	2113
25°	2067	2091	2112
30°	2042	2080	2112
35°	2019	2072	2119
40°	1990	2062	2126
45°	1950	2051	2156
50°	1901	2042	2196
55°	1844	2045	2255
60°	1763	2065	2340
65°	1631	2086	2457
70°	1470	2152	2610
75°	1241	2218	2335
80°	965	1898	1961
85°	693	1292	1135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	3.1
10°-20°	426.2	8.9
20°-30°	648.1	13.6
30°-40°	787.4	16.5
40°-50°	831.0	17.4
50°-60°	780.9	16.4
60°-70°	642.9	13.5
70°-80°	405.0	8.5
80°-90°	95.6	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°	1222.6	25.7
0°-40°	2010.0	42.2
0°-60°	3621.9	76.0
0°-90°	4765.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4765.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1566	1566	1566	1566	1566	
5°	1566	1558	1564	1562	1560	149
15°	1506	1500	1513	1517	1517	425
25°	1392	1390	1408	1417	1423	641
35°	1229	1235	1262	1278	1290	768
45°	1025	1041	1078	1108	1133	790
55°	786	814	872	933	962	702
65°	512	561	655	739	772	509
75°	239	312	427	465	449	255
85°	45	76	84	78	74	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1565.7	1565.7	1565.7	1565.7	1565.7
2.5°	1571.8	1561.6	1567.7	1565.7	1559.6
5°	1565.7	1557.5	1563.6	1561.6	1559.6
7.5°	1557.5	1549.4	1555.5	1553.4	1553.4
10°	1543.2	1537.1	1543.2	1543.2	1543.2
12.5°	1526.9	1520.8	1528.9	1531.0	1533.0
15°	1506.5	1500.4	1512.6	1516.7	1516.7
17.5°	1482.0	1477.9	1490.2	1494.2	1498.3
20°	1455.5	1453.4	1467.7	1471.8	1475.9
22.5°	1424.8	1424.8	1439.1	1443.2	1451.4
25°	1392.2	1390.1	1408.5	1416.7	1422.8
27.5°	1355.4	1355.4	1375.8	1386.1	1392.2
30°	1314.6	1318.7	1339.1	1351.4	1359.5
32.5°	1273.8	1277.9	1302.4	1316.6	1326.9
35°	1228.9	1235.0	1261.5	1277.9	1290.1
37.5°	1179.9	1190.1	1218.7	1237.0	1251.3
40°	1132.9	1141.1	1173.8	1194.2	1210.5
42.5°	1079.9	1094.1	1126.8	1151.3	1169.7
45°	1024.7	1041.1	1077.8	1108.4	1132.9
47.5°	967.6	988.0	1026.8	1067.6	1092.1
50°	908.4	930.8	975.7	1024.7	1049.2
52.5°	849.2	873.7	922.7	979.8	1006.4
55°	785.9	814.5	871.6	932.9	961.5
57.5°	720.6	753.2	818.6	888.0	916.6
60°	655.3	690.0	767.5	836.9	869.6
62.5°	587.9	626.7	710.4	790.0	820.6
65°	512.4	561.4	655.3	739.0	771.6
67.5°	443.0	494.0	602.2	685.9	720.6
70°	373.6	432.8	547.1	630.8	663.4
72.5°	304.2	373.6	485.8	571.6	589.9
75°	238.8	312.3	426.6	465.4	449.1
77.5°	175.6	257.2	359.3	338.9	334.8
80°	124.5	204.1	245.0	247.0	253.1
82.5°	79.6	151.1	159.2	161.3	163.3
85°	44.9	75.5	83.7	77.6	73.5
87.5°	20.4	24.5	20.4	14.3	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)