

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: P345132

Luminaire Tested: **22CZ-44-L840-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345132
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-3)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 22CZ-44-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3994.1 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

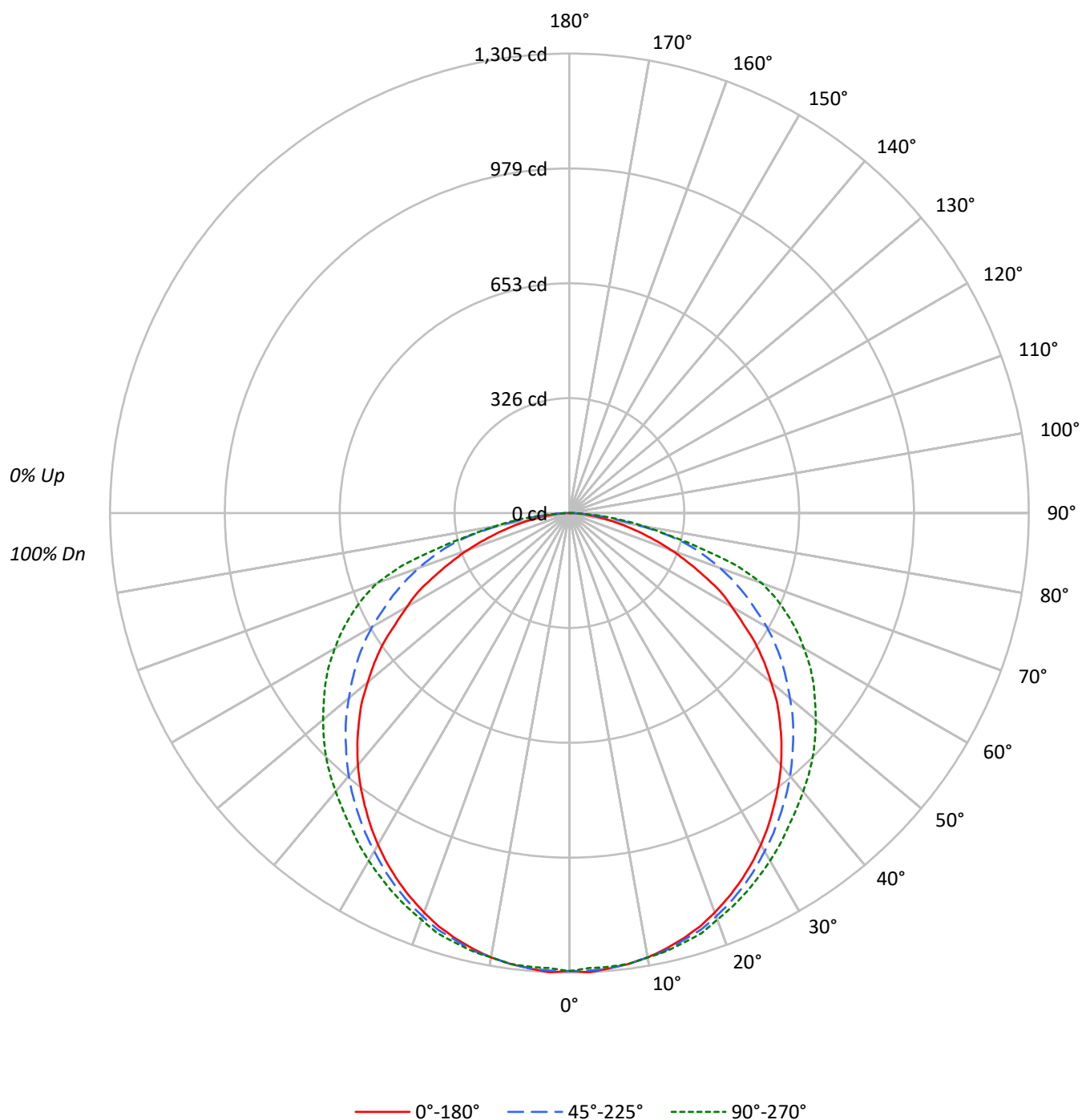
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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	73	80	76	72	77	74	70
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3500	3500	3500
5°	3507	3507	3494
10°	3502	3502	3502
15°	3483	3497	3517
20°	3457	3492	3519
25°	3421	3471	3528
30°	3380	3447	3544
35°	3330	3432	3566
40°	3284	3426	3628
45°	3221	3421	3721
50°	3133	3423	3823
55°	3028	3455	3970
60°	2869	3487	4143
65°	2679	3517	4354
70°	2426	3574	4571
75°	2088	3630	4002
80°	1705	3037	3298
85°	1402	2214	2436



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.3	3.1
10°-20°	354.6	8.9
20°-30°	539.0	13.5
30°-40°	655.9	16.4
40°-50°	698.7	17.5
50°-60°	660.9	16.5
60°-70°	544.7	13.6
70°-80°	335.0	8.4
80°-90°	81.8	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°	1017.0	25.5
0°-40°	1672.9	41.9
0°-60°	3032.5	75.9
0°-90°	3994.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3994.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1298	1298	1298	1296	1293	123
15°	1250	1253	1255	1260	1262	353
25°	1152	1157	1169	1181	1188	531
35°	1014	1023	1045	1071	1085	635
45°	846	861	899	949	978	653
55°	646	669	736	808	846	575
65°	421	461	552	641	684	418
75°	201	256	349	380	385	215
85°	45	60	72	76	79	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1300.6	1300.6	1300.6	1300.6	1300.6
2.5°	1305.4	1303.0	1300.6	1295.8	1293.4
5°	1298.2	1298.2	1298.2	1295.8	1293.4
7.5°	1291.0	1291.0	1291.0	1291.0	1291.0
10°	1281.5	1281.5	1281.5	1281.5	1281.5
12.5°	1267.1	1269.5	1271.9	1271.9	1274.3
15°	1250.4	1252.8	1255.2	1259.9	1262.3
17.5°	1231.2	1233.6	1240.8	1245.6	1250.4
20°	1207.3	1209.7	1219.3	1224.1	1228.9
22.5°	1181.0	1185.8	1195.4	1204.9	1209.7
25°	1152.3	1157.1	1169.1	1181.0	1188.2
27.5°	1121.3	1126.1	1140.4	1157.1	1164.3
30°	1087.8	1092.6	1109.3	1128.4	1140.4
32.5°	1051.9	1059.1	1078.2	1102.1	1114.1
35°	1013.7	1023.2	1044.8	1071.1	1085.4
37.5°	975.4	985.0	1011.3	1042.4	1059.1
40°	934.8	946.7	975.4	1011.3	1032.8
42.5°	891.8	906.1	937.2	980.2	1006.5
45°	846.3	860.7	898.9	949.1	977.8
47.5°	800.9	817.6	860.7	915.7	946.7
50°	748.3	767.4	817.6	882.2	913.3
52.5°	698.1	722.0	777.0	846.3	879.8
55°	645.5	669.4	736.4	808.1	846.3
57.5°	585.7	614.4	693.3	769.8	810.5
60°	533.1	561.8	647.9	729.2	769.8
62.5°	485.3	511.6	597.7	686.2	729.2
65°	420.8	461.4	552.3	640.7	683.8
67.5°	363.4	408.8	504.5	588.1	635.9
70°	308.4	356.2	454.2	535.5	581.0
72.5°	253.4	306.0	404.0	475.8	499.7
75°	200.8	255.8	349.1	380.1	384.9
77.5°	153.0	208.0	282.1	279.7	284.5
80°	110.0	157.8	196.0	203.2	212.8
82.5°	74.1	110.0	126.7	138.7	148.2
85°	45.4	59.8	71.7	76.5	78.9
87.5°	21.5	23.9	23.9	19.1	19.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)