

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: P345152

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345152
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-44SE-L840-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

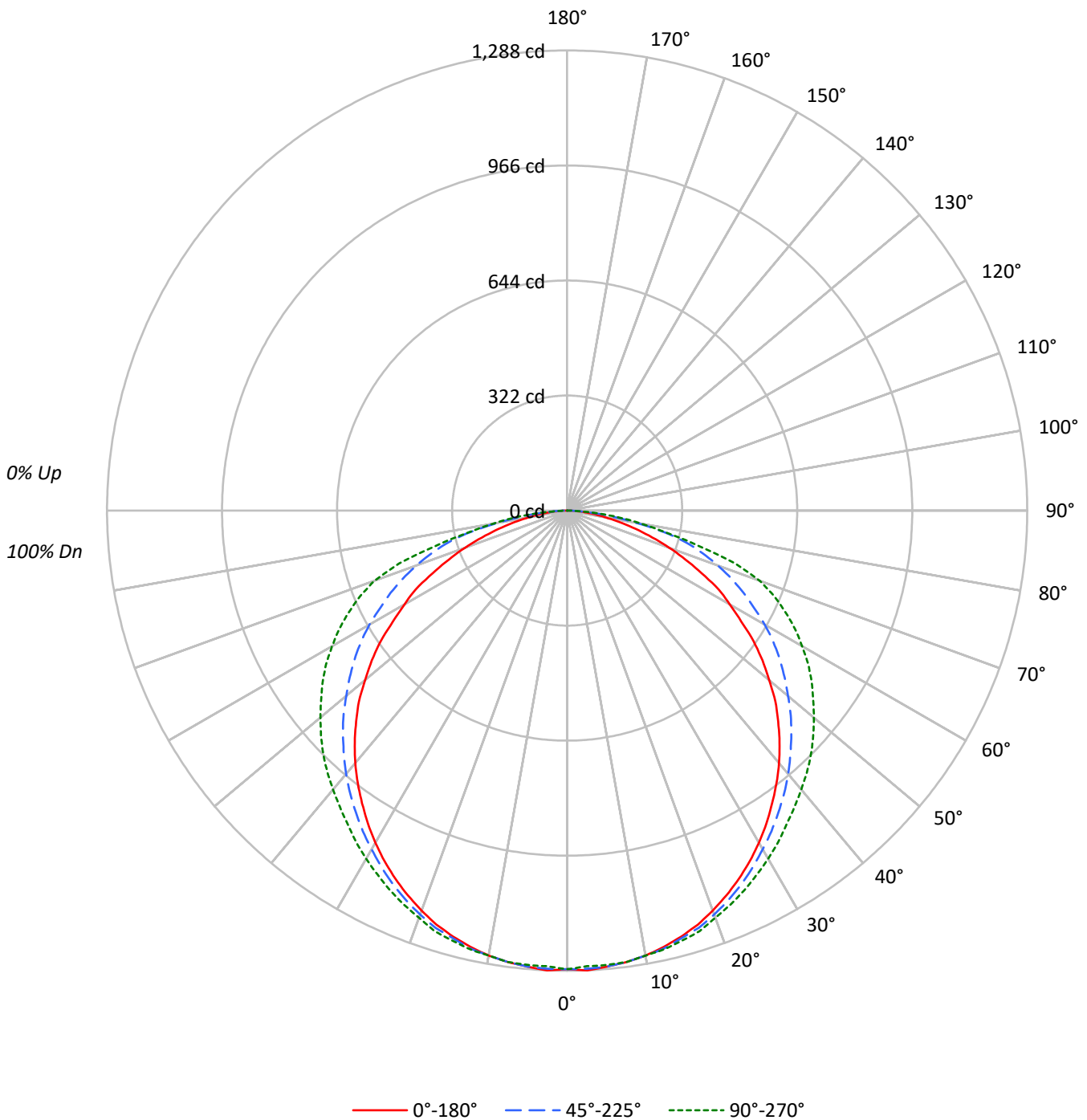
Lumens per Lamp: N/A
Luminaire Lumens: 3942.0 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (A_{in}): 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	73	80	76	72	77	74	70	68
3	89	78	69	63	86	76	68	62	73	67	61	71	65	60	68	63	59	57
4	81	69	60	53	79	67	59	52	65	57	52	63	56	51	60	55	50	48
5	75	61	52	45	72	60	51	45	58	50	44	56	49	44	54	48	43	41
6	69	55	46	39	67	54	45	39	52	44	39	50	44	38	49	43	38	36
7	64	50	41	34	62	49	40	34	47	40	34	46	39	34	45	38	34	32
8	59	45	37	31	58	45	36	31	43	36	30	42	35	30	41	35	30	28
9	55	42	33	28	54	41	33	27	40	32	27	39	32	27	38	32	27	25
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3454	3454	3454
5°	3461	3461	3448
10°	3456	3456	3456
15°	3438	3451	3471
20°	3412	3446	3473
25°	3377	3426	3482
30°	3336	3402	3497
35°	3287	3387	3519
40°	3241	3382	3581
45°	3179	3376	3673
50°	3092	3378	3774
55°	2989	3409	3919
60°	2832	3441	4089
65°	2644	3471	4297
70°	2395	3527	4511
75°	2061	3582	3950
80°	1681	2999	3254
85°	1383	2186	2405



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.7	3.1
10°-20°	350.0	8.9
20°-30°	532.0	13.5
30°-40°	647.4	16.4
40°-50°	689.6	17.5
50°-60°	652.3	16.5
60°-70°	537.6	13.6
70°-80°	330.7	8.4
80°-90°	80.7	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°	1003.7	25.5
0°-40°	1651.1	41.9
0°-60°	2993.0	75.9
0°-90°	3942.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3942.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1284	1284	1284	1284	1284	
5°	1281	1281	1281	1279	1276	122
15°	1234	1236	1239	1244	1246	348
25°	1137	1142	1154	1166	1173	524
35°	1000	1010	1031	1057	1071	626
45°	835	849	887	937	965	644
55°	637	661	727	798	835	567
65°	415	455	545	632	675	413
75°	198	252	344	375	380	212
85°	45	59	71	76	78	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1283.6	1283.6	1283.6	1283.6	1283.6
2.5°	1288.3	1286.0	1283.6	1278.9	1276.5
5°	1281.2	1281.2	1281.2	1278.9	1276.5
7.5°	1274.2	1274.2	1274.2	1274.2	1274.2
10°	1264.7	1264.7	1264.7	1264.7	1264.7
12.5°	1250.6	1252.9	1255.3	1255.3	1257.7
15°	1234.1	1236.4	1238.8	1243.5	1245.9
17.5°	1215.2	1217.5	1224.6	1229.3	1234.1
20°	1191.6	1193.9	1203.4	1208.1	1212.8
22.5°	1165.6	1170.3	1179.8	1189.2	1193.9
25°	1137.3	1142.0	1153.8	1165.6	1172.7
27.5°	1106.6	1111.4	1125.5	1142.0	1149.1
30°	1073.6	1078.3	1094.8	1113.7	1125.5
32.5°	1038.2	1045.3	1064.2	1087.8	1099.6
35°	1000.5	1009.9	1031.1	1057.1	1071.2
37.5°	962.7	972.1	998.1	1028.8	1045.3
40°	922.6	934.4	962.7	998.1	1019.3
42.5°	880.1	894.3	925.0	967.4	993.4
45°	835.3	849.4	887.2	936.8	965.1
47.5°	790.5	807.0	849.4	903.7	934.4
50°	738.5	757.4	807.0	870.7	901.4
52.5°	689.0	712.6	766.9	835.3	868.3
55°	637.1	660.7	726.7	797.5	835.3
57.5°	578.1	606.4	684.3	759.8	799.9
60°	526.2	554.5	639.4	719.7	759.8
62.5°	479.0	504.9	589.9	677.2	719.7
65°	415.3	455.4	545.1	632.4	674.8
67.5°	358.7	403.5	497.9	580.5	627.6
70°	304.4	351.6	448.3	528.5	573.4
72.5°	250.1	302.0	398.8	469.6	493.2
75°	198.2	252.5	344.5	375.2	379.9
77.5°	151.0	205.3	278.4	276.1	280.8
80°	108.5	155.7	193.5	200.6	210.0
82.5°	73.1	108.5	125.1	136.9	146.3
85°	44.8	59.0	70.8	75.5	77.9
87.5°	21.2	23.6	23.6	18.9	18.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)