

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: P345150

Luminaire Tested: **22CZ-44SE-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345150
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

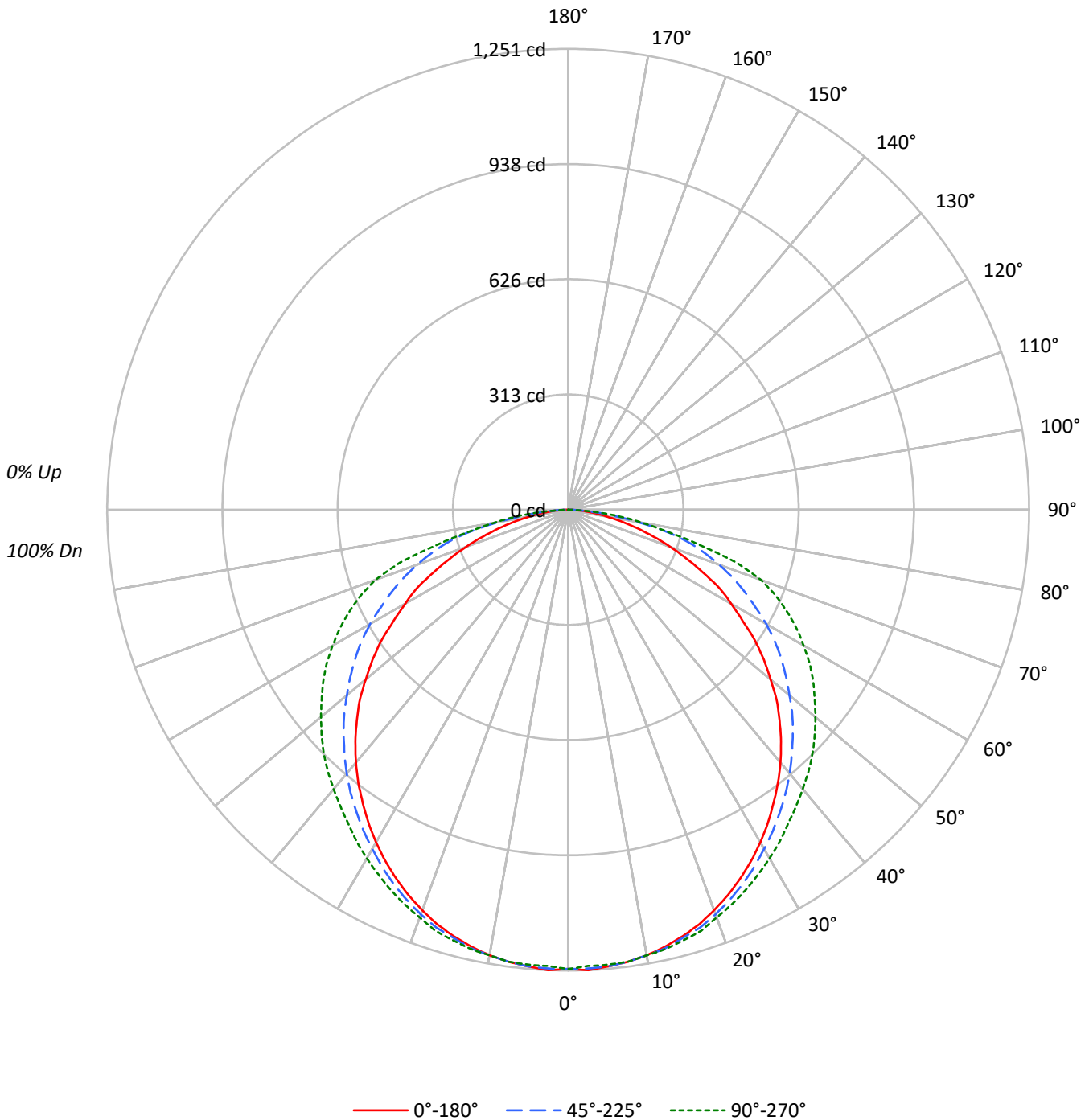
Lumens per Lamp: N/A
Luminaire Lumens: 3828.9 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.3 / 1.4
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 40
Input Voltage (V): NR
Input Current (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	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°	3355	3355	3355
5°	3362	3362	3349
10°	3357	3357	3357
15°	3339	3352	3371
20°	3314	3347	3373
25°	3280	3328	3382
30°	3240	3304	3397
35°	3192	3290	3418
40°	3148	3285	3478
45°	3087	3280	3567
50°	3003	3281	3665
55°	2903	3312	3806
60°	2751	3343	3972
65°	2569	3371	4174
70°	2327	3426	4382
75°	2001	3479	3837
80°	1633	2912	3161
85°	1343	2124	2334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	3.1
10°-20°	340.0	8.9
20°-30°	516.8	13.5
30°-40°	628.8	16.4
40°-50°	669.8	17.5
50°-60°	633.6	16.5
60°-70°	522.2	13.6
70°-80°	321.2	8.4
80°-90°	78.4	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°	974.9	25.5
0°-40°	1603.7	41.9
0°-60°	2907.1	75.9
0°-90°	3828.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3828.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1244	1244	1244	1242	1240	118
15°	1199	1201	1203	1208	1210	338
25°	1105	1109	1121	1132	1139	509
35°	972	981	1002	1027	1040	608
45°	811	825	862	910	937	626
55°	619	642	706	775	811	551
65°	403	442	529	614	656	401
75°	192	245	335	364	369	206
85°	44	57	69	73	76	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1251.4	1249.1	1246.8	1242.2	1239.9
5°	1244.5	1244.5	1244.5	1242.2	1239.9
7.5°	1237.6	1237.6	1237.6	1237.6	1237.6
10°	1228.5	1228.5	1228.5	1228.5	1228.5
12.5°	1214.7	1217.0	1219.3	1219.3	1221.6
15°	1198.7	1201.0	1203.2	1207.8	1210.1
17.5°	1180.3	1182.6	1189.5	1194.1	1198.7
20°	1157.4	1159.7	1168.9	1173.5	1178.0
22.5°	1132.2	1136.8	1146.0	1155.1	1159.7
25°	1104.7	1109.3	1120.7	1132.2	1139.1
27.5°	1074.9	1079.5	1093.2	1109.3	1116.2
30°	1042.8	1047.4	1063.4	1081.8	1093.2
32.5°	1008.4	1015.3	1033.6	1056.6	1068.0
35°	971.8	980.9	1001.6	1026.8	1040.5
37.5°	935.1	944.3	969.5	999.3	1015.3
40°	896.1	907.6	935.1	969.5	990.1
42.5°	854.9	868.6	898.4	939.7	964.9
45°	811.3	825.1	861.8	909.9	937.4
47.5°	767.8	783.8	825.1	877.8	907.6
50°	717.4	735.7	783.8	845.7	875.5
52.5°	669.2	692.2	744.9	811.3	843.4
55°	618.8	641.7	705.9	774.7	811.3
57.5°	561.5	589.0	664.7	738.0	777.0
60°	511.1	538.6	621.1	699.0	738.0
62.5°	465.3	490.5	573.0	657.8	699.0
65°	403.4	442.3	529.4	614.2	655.5
67.5°	348.4	391.9	483.6	563.8	609.6
70°	295.7	341.5	435.5	513.4	556.9
72.5°	242.9	293.4	387.3	456.1	479.0
75°	192.5	245.2	334.6	364.4	369.0
77.5°	146.7	199.4	270.4	268.2	272.7
80°	105.4	151.3	187.9	194.8	204.0
82.5°	71.0	105.4	121.5	132.9	142.1
85°	43.5	57.3	68.8	73.3	75.6
87.5°	20.6	22.9	22.9	18.3	18.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)