

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: P345130

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345130
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-L830-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3880.2 lumens
Efficiency: N/A
Efficacy: 92.8 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

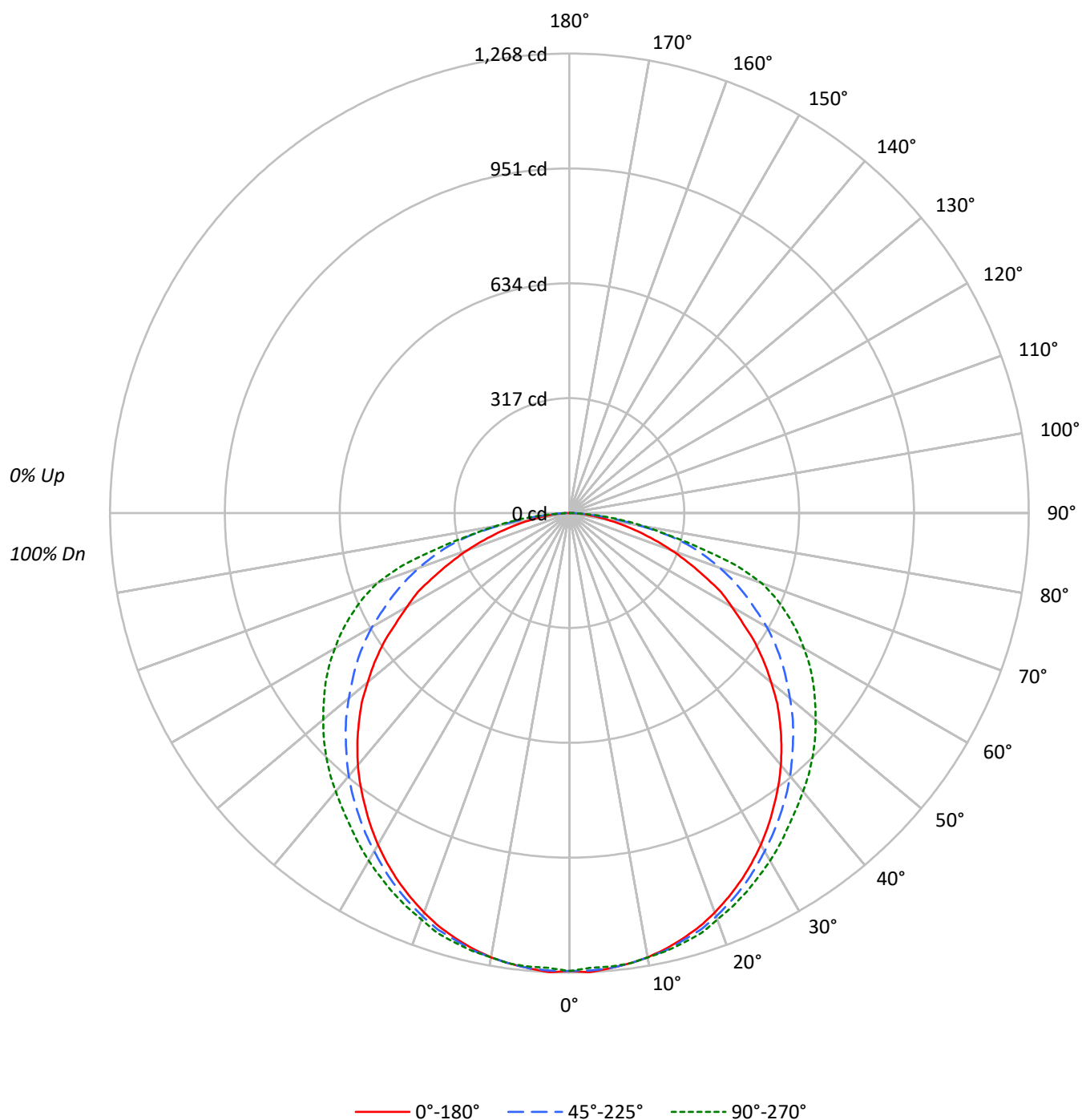
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3400	3400	3400
5°	3407	3407	3394
10°	3402	3402	3402
15°	3384	3397	3416
20°	3359	3392	3419
25°	3324	3372	3427
30°	3284	3349	3443
35°	3235	3334	3464
40°	3190	3329	3524
45°	3129	3323	3615
50°	3044	3325	3714
55°	2942	3356	3857
60°	2787	3387	4025
65°	2603	3416	4230
70°	2357	3472	4441
75°	2028	3526	3887
80°	1655	2952	3203
85°	1362	2152	2365



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.8	3.1
10°-20°	344.5	8.9
20°-30°	523.7	13.5
30°-40°	637.2	16.4
40°-50°	678.8	17.5
50°-60°	642.1	16.5
60°-70°	529.2	13.6
70°-80°	325.5	8.4
80°-90°	79.5	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°	988.0	25.5
0°-40°	1625.2	41.9
0°-60°	2946.0	75.9
0°-90°	3880.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3880.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1264	1264	1264	1264	1264	
5°	1261	1261	1261	1259	1256	120
15°	1215	1217	1219	1224	1226	343
25°	1120	1124	1136	1147	1154	516
35°	985	994	1015	1040	1054	616
45°	822	836	873	922	950	634
55°	627	650	715	785	822	558
65°	409	448	536	622	664	406
75°	195	248	339	369	374	209
85°	44	58	70	74	77	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1263.5	1263.5	1263.5	1263.5	1263.5
2.5°	1268.1	1265.8	1263.5	1258.8	1256.5
5°	1261.2	1261.2	1261.2	1258.8	1256.5
7.5°	1254.2	1254.2	1254.2	1254.2	1254.2
10°	1244.9	1244.9	1244.9	1244.9	1244.9
12.5°	1231.0	1233.3	1235.6	1235.6	1237.9
15°	1214.7	1217.0	1219.3	1224.0	1226.3
17.5°	1196.1	1198.4	1205.4	1210.1	1214.7
20°	1172.9	1175.2	1184.5	1189.2	1193.8
22.5°	1147.3	1152.0	1161.3	1170.6	1175.2
25°	1119.5	1124.1	1135.7	1147.3	1154.3
27.5°	1089.3	1093.9	1107.9	1124.1	1131.1
30°	1056.8	1061.4	1077.7	1096.3	1107.9
32.5°	1021.9	1028.9	1047.5	1070.7	1082.3
35°	984.8	994.1	1015.0	1040.5	1054.4
37.5°	947.6	956.9	982.4	1012.6	1028.9
40°	908.1	919.7	947.6	982.4	1003.3
42.5°	866.3	880.3	910.4	952.3	977.8
45°	822.2	836.1	873.3	922.1	949.9
47.5°	778.1	794.3	836.1	889.5	919.7
50°	727.0	745.5	794.3	857.0	887.2
52.5°	678.2	701.4	754.8	822.2	854.7
55°	627.1	650.3	715.4	785.0	822.2
57.5°	569.0	596.9	673.5	747.9	787.3
60°	517.9	545.8	629.4	708.4	747.9
62.5°	471.5	497.0	580.6	666.6	708.4
65°	408.8	448.3	536.5	622.4	664.3
67.5°	353.0	397.2	490.1	571.4	617.8
70°	299.6	346.1	441.3	520.3	564.4
72.5°	246.2	297.3	392.5	462.2	485.4
75°	195.1	248.5	339.1	369.3	373.9
77.5°	148.6	202.1	274.1	271.7	276.4
80°	106.8	153.3	190.5	197.4	206.7
82.5°	72.0	106.8	123.1	134.7	144.0
85°	44.1	58.1	69.7	74.3	76.6
87.5°	20.9	23.2	23.2	18.6	18.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)