

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: P345151

Luminaire Tested: **22CZ-44SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345151
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3864.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

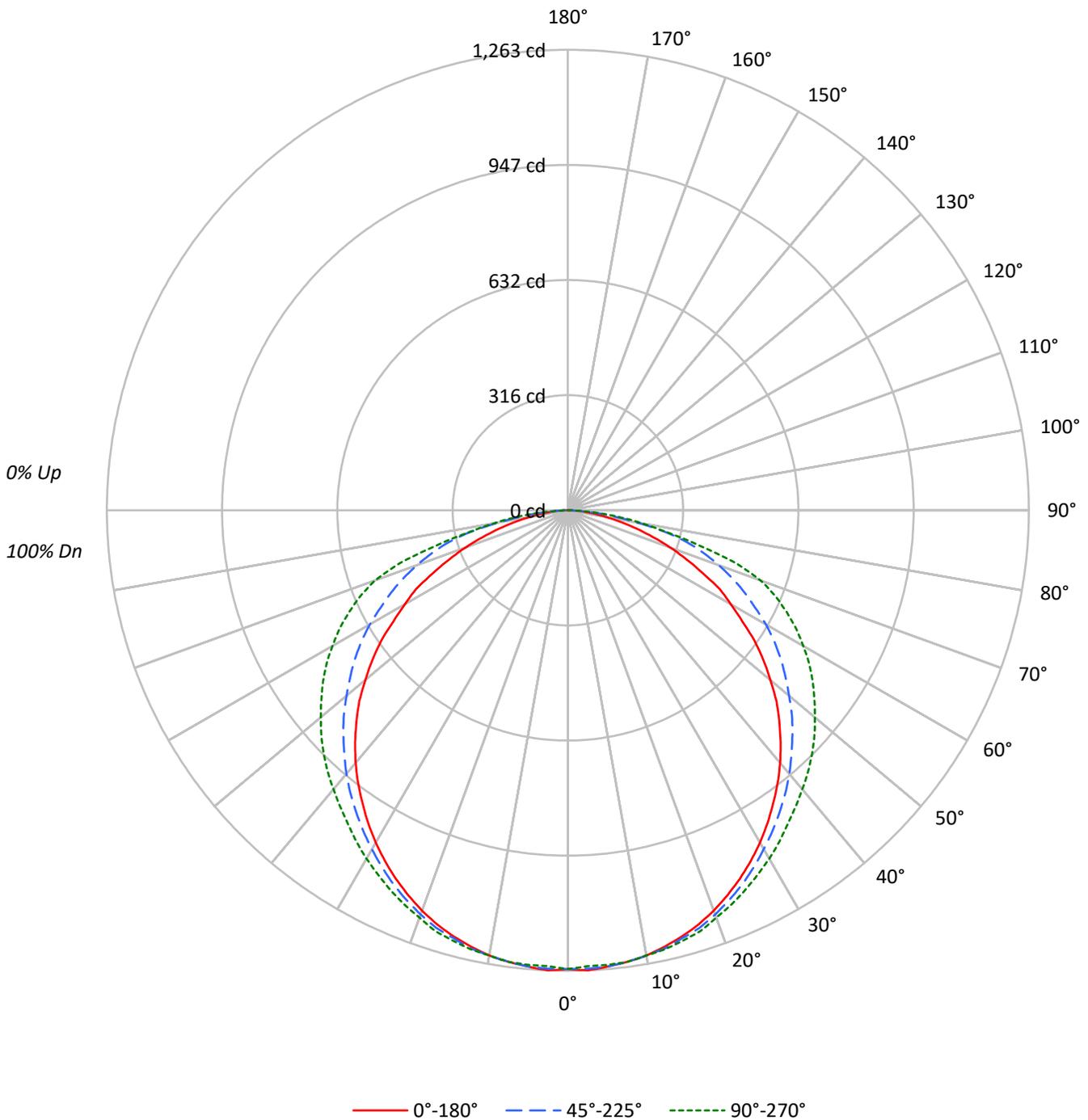
Input Watts (W): 40
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3386	3386	3386
5°	3393	3393	3380
10°	3388	3388	3388
15°	3370	3383	3402
20°	3345	3378	3405
25°	3310	3358	3413
30°	3270	3335	3428
35°	3222	3321	3450
40°	3177	3315	3510
45°	3116	3310	3600
50°	3031	3312	3699
55°	2930	3342	3841
60°	2776	3373	4008
65°	2592	3402	4212
70°	2348	3458	4423
75°	2020	3511	3872
80°	1649	2940	3191
85°	1355	2143	2356



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	3.1
10°-20°	343.1	8.9
20°-30°	521.5	13.5
30°-40°	634.6	16.4
40°-50°	676.0	17.5
50°-60°	639.4	16.5
60°-70°	527.0	13.6
70°-80°	324.2	8.4
80°-90°	79.1	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°	983.9	25.5
0°-40°	1618.5	41.9
0°-60°	2934.0	75.9
0°-90°	3864.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3864.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1258	1258	1258	1258	1258	
5°	1256	1256	1256	1254	1251	119
15°	1210	1212	1214	1219	1221	341
25°	1115	1120	1131	1143	1150	514
35°	981	990	1011	1036	1050	614
45°	819	833	870	918	946	631
55°	624	648	712	782	819	556
65°	407	446	534	620	662	404
75°	194	248	338	368	372	208
85°	44	58	69	74	76	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1258.3	1258.3	1258.3	1258.3	1258.3
2.5°	1262.9	1260.6	1258.3	1253.7	1251.4
5°	1256.0	1256.0	1256.0	1253.7	1251.4
7.5°	1249.0	1249.0	1249.0	1249.0	1249.0
10°	1239.8	1239.8	1239.8	1239.8	1239.8
12.5°	1225.9	1228.2	1230.5	1230.5	1232.9
15°	1209.7	1212.0	1214.4	1219.0	1221.3
17.5°	1191.2	1193.5	1200.5	1205.1	1209.7
20°	1168.1	1170.4	1179.7	1184.3	1188.9
22.5°	1142.6	1147.3	1156.5	1165.8	1170.4
25°	1114.9	1119.5	1131.1	1142.6	1149.6
27.5°	1084.8	1089.4	1103.3	1119.5	1126.5
30°	1052.4	1057.1	1073.3	1091.8	1103.3
32.5°	1017.7	1024.7	1043.2	1066.3	1077.9
35°	980.7	990.0	1010.8	1036.2	1050.1
37.5°	943.7	953.0	978.4	1008.5	1024.7
40°	904.4	916.0	943.7	978.4	999.2
42.5°	862.8	876.6	906.7	948.4	973.8
45°	818.8	832.7	869.7	918.3	946.0
47.5°	774.9	791.1	832.7	885.9	916.0
50°	724.0	742.5	791.1	853.5	883.6
52.5°	675.4	698.5	751.7	818.8	851.2
55°	624.5	647.7	712.4	781.8	818.8
57.5°	566.7	594.5	670.8	744.8	784.1
60°	515.8	543.6	626.8	705.5	744.8
62.5°	469.5	495.0	578.3	663.8	705.5
65°	407.1	446.4	534.3	619.9	661.5
67.5°	351.6	395.5	488.1	569.0	615.3
70°	298.4	344.6	439.5	518.1	562.1
72.5°	245.2	296.1	390.9	460.3	483.4
75°	194.3	247.5	337.7	367.8	372.4
77.5°	148.0	201.2	272.9	270.6	275.3
80°	106.4	152.7	189.7	196.6	205.9
82.5°	71.7	106.4	122.6	134.2	143.4
85°	43.9	57.8	69.4	74.0	76.3
87.5°	20.8	23.1	23.1	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)