

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: P345133

Luminaire Tested: **22CZ-44-L850-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345133
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-L850-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.0 lumens
Efficiency: N/A
Efficacy: 103.4 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

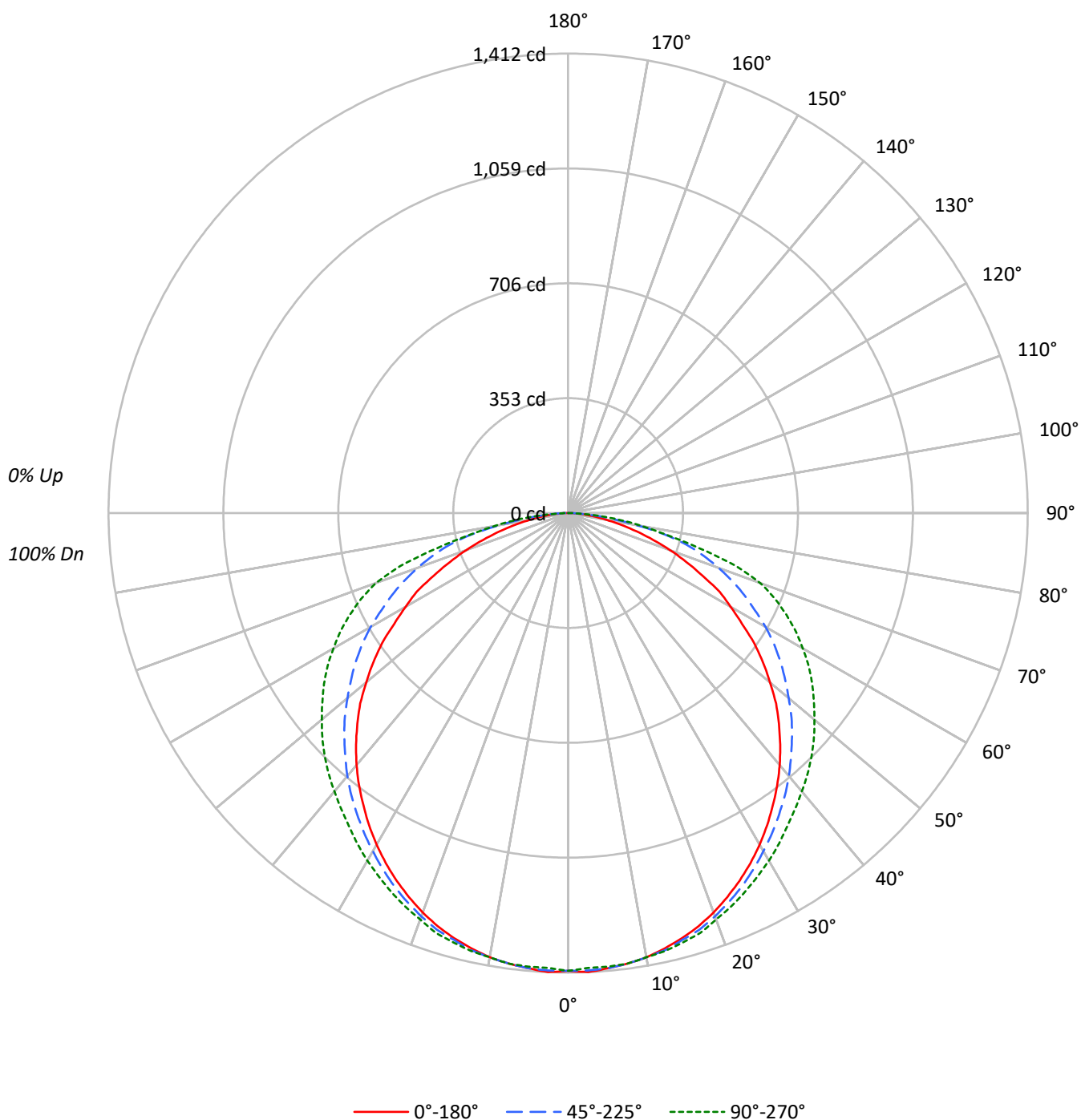
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3785	3785	3785
5°	3793	3793	3779
10°	3787	3787	3787
15°	3768	3782	3804
20°	3740	3777	3806
25°	3701	3755	3816
30°	3656	3728	3833
35°	3602	3712	3857
40°	3552	3706	3924
45°	3484	3700	4025
50°	3388	3702	4135
55°	3276	3736	4295
60°	3103	3772	4481
65°	2898	3803	4709
70°	2625	3865	4944
75°	2258	3925	4328
80°	1843	3285	3566
85°	1516	2396	2634



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	3.1
10°-20°	383.6	8.9
20°-30°	583.0	13.5
30°-40°	709.5	16.4
40°-50°	755.7	17.5
50°-60°	714.8	16.5
60°-70°	589.2	13.6
70°-80°	362.4	8.4
80°-90°	88.5	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°	1100.0	25.5
0°-40°	1809.4	41.9
0°-60°	3280.0	75.9
0°-90°	4320.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4320.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1407	1407	1407	1407	1407	
5°	1404	1404	1404	1402	1399	133
15°	1352	1355	1358	1363	1365	382
25°	1246	1252	1264	1277	1285	574
35°	1096	1107	1130	1158	1174	686
45°	915	931	972	1027	1058	706
55°	698	724	796	874	915	621
65°	455	499	597	693	740	452
75°	217	277	378	411	416	233
85°	49	65	78	83	85	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1406.7	1406.7	1406.7	1406.7	1406.7
2.5°	1411.9	1409.3	1406.7	1401.5	1398.9
5°	1404.1	1404.1	1404.1	1401.5	1398.9
7.5°	1396.4	1396.4	1396.4	1396.4	1396.4
10°	1386.0	1386.0	1386.0	1386.0	1386.0
12.5°	1370.5	1373.1	1375.7	1375.7	1378.3
15°	1352.4	1355.0	1357.6	1362.7	1365.3
17.5°	1331.7	1334.3	1342.1	1347.2	1352.4
20°	1305.9	1308.4	1318.8	1324.0	1329.1
22.5°	1277.4	1282.6	1292.9	1303.3	1308.4
25°	1246.4	1251.6	1264.5	1277.4	1285.2
27.5°	1212.8	1217.9	1233.5	1251.6	1259.3
30°	1176.6	1181.7	1199.8	1220.5	1233.5
32.5°	1137.8	1145.5	1166.2	1192.1	1205.0
35°	1096.4	1106.7	1130.0	1158.5	1174.0
37.5°	1055.0	1065.4	1093.8	1127.4	1145.5
40°	1011.1	1024.0	1055.0	1093.8	1117.1
42.5°	964.5	980.0	1013.7	1060.2	1088.6
45°	915.4	930.9	972.3	1026.6	1057.6
47.5°	866.3	884.4	930.9	990.4	1024.0
50°	809.4	830.1	884.4	954.2	987.8
52.5°	755.1	780.9	840.4	915.4	951.6
55°	698.2	724.0	796.4	874.0	915.4
57.5°	633.5	664.6	749.9	832.6	876.6
60°	576.6	607.7	700.8	788.7	832.6
62.5°	524.9	553.4	646.5	742.1	788.7
65°	455.1	499.1	597.3	693.0	739.6
67.5°	393.1	442.2	545.6	636.1	687.8
70°	333.6	385.3	491.3	579.2	628.4
72.5°	274.1	331.0	437.0	514.6	540.4
75°	217.2	276.7	377.5	411.2	416.3
77.5°	165.5	225.0	305.1	302.5	307.7
80°	118.9	170.7	212.0	219.8	230.1
82.5°	80.2	118.9	137.1	150.0	160.3
85°	49.1	64.6	77.6	82.7	85.3
87.5°	23.3	25.9	25.9	20.7	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)