

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: P345131

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345131
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-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3915.5 lumens
Efficiency: N/A
Efficacy: 93.7 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

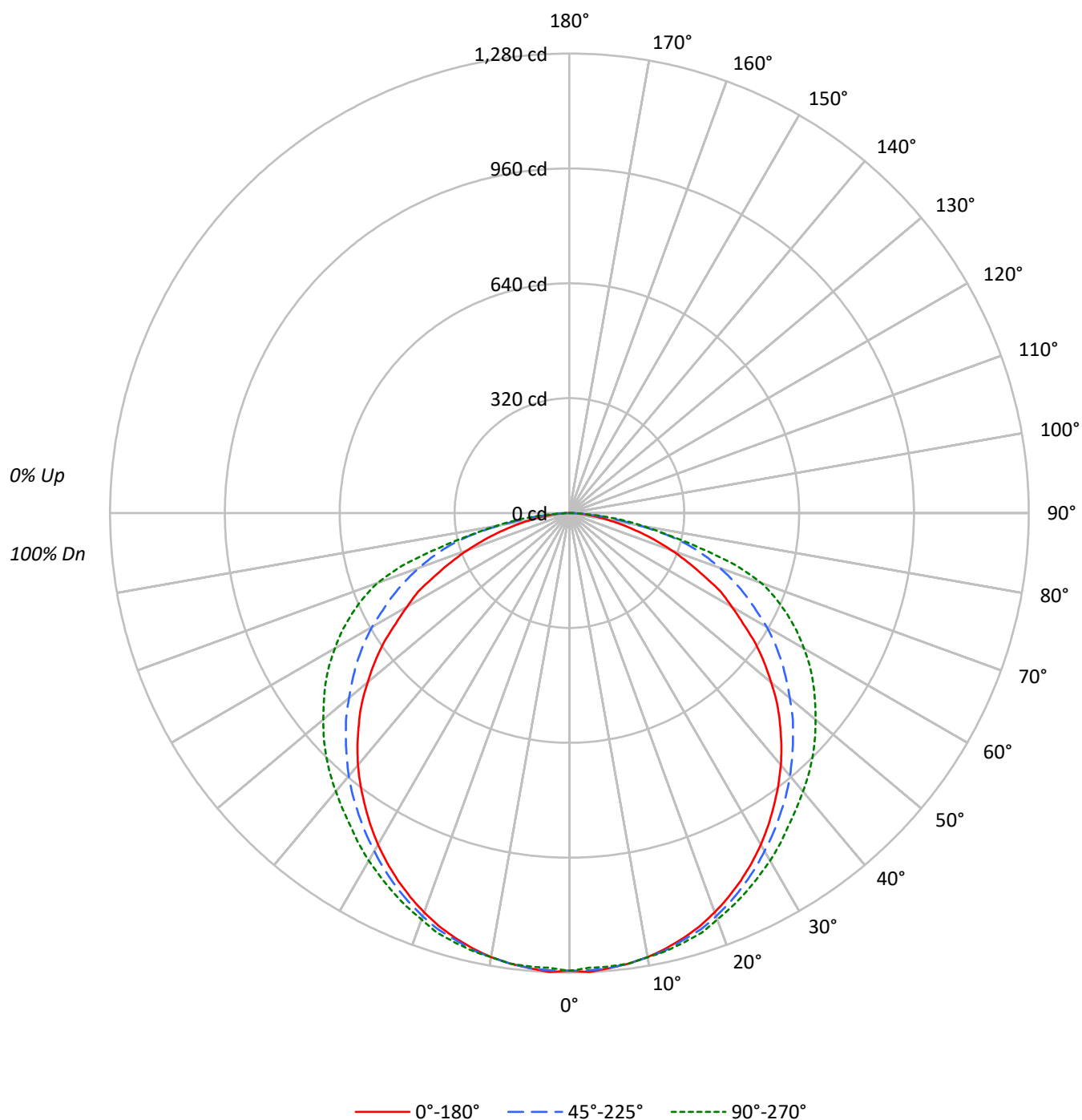
Input Watts (W): 41.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	3431	3431	3431
5°	3438	3438	3425
10°	3433	3433	3433
15°	3415	3428	3448
20°	3389	3423	3450
25°	3354	3403	3458
30°	3314	3379	3474
35°	3264	3365	3495
40°	3219	3359	3557
45°	3158	3354	3648
50°	3071	3355	3748
55°	2969	3387	3893
60°	2813	3418	4062
65°	2627	3447	4268
70°	2378	3504	4481
75°	2047	3558	3923
80°	1671	2978	3233
85°	1374	2171	2387



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.9	3.1
10°-20°	347.6	8.9
20°-30°	528.4	13.5
30°-40°	643.0	16.4
40°-50°	684.9	17.5
50°-60°	647.9	16.5
60°-70°	534.0	13.6
70°-80°	328.5	8.4
80°-90°	80.2	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°	997.0	25.5
0°-40°	1640.0	41.9
0°-60°	2972.9	75.9
0°-90°	3915.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3915.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1275	1275	1275	1275	1275	
5°	1273	1273	1273	1270	1268	121
15°	1226	1228	1230	1235	1238	346
25°	1130	1134	1146	1158	1165	520
35°	994	1003	1024	1050	1064	622
45°	830	844	881	930	959	640
55°	633	656	722	792	830	563
65°	412	452	541	628	670	410
75°	197	251	342	373	377	211
85°	44	59	70	75	77	52
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1279.7	1277.3	1275.0	1270.3	1267.9
5°	1272.6	1272.6	1272.6	1270.3	1267.9
7.5°	1265.6	1265.6	1265.6	1265.6	1265.6
10°	1256.2	1256.2	1256.2	1256.2	1256.2
12.5°	1242.2	1244.5	1246.9	1246.9	1249.2
15°	1225.8	1228.1	1230.4	1235.1	1237.5
17.5°	1207.0	1209.4	1216.4	1221.1	1225.8
20°	1183.6	1185.9	1195.3	1200.0	1204.7
22.5°	1157.8	1162.5	1171.9	1181.2	1185.9
25°	1129.7	1134.4	1146.1	1157.8	1164.8
27.5°	1099.2	1103.9	1118.0	1134.4	1141.4
30°	1066.4	1071.1	1087.5	1106.2	1118.0
32.5°	1031.2	1038.3	1057.0	1080.5	1092.2
35°	993.7	1003.1	1024.2	1050.0	1064.0
37.5°	956.2	965.6	991.4	1021.9	1038.3
40°	916.4	928.1	956.2	991.4	1012.5
42.5°	874.2	888.3	918.7	960.9	986.7
45°	829.7	843.7	881.2	930.5	958.6
47.5°	785.1	801.5	843.7	897.6	928.1
50°	733.6	752.3	801.5	864.8	895.3
52.5°	684.4	707.8	761.7	829.7	862.5
55°	632.8	656.2	721.9	792.2	829.7
57.5°	574.2	602.3	679.7	754.7	794.5
60°	522.6	550.8	635.1	714.8	754.7
62.5°	475.8	501.6	585.9	672.6	714.8
65°	412.5	452.3	541.4	628.1	670.3
67.5°	356.2	400.8	494.5	576.6	623.4
70°	302.3	349.2	445.3	525.0	569.5
72.5°	248.4	300.0	396.1	466.4	489.8
75°	196.9	250.8	342.2	372.7	377.3
77.5°	150.0	203.9	276.6	274.2	278.9
80°	107.8	154.7	192.2	199.2	208.6
82.5°	72.7	107.8	124.2	135.9	145.3
85°	44.5	58.6	70.3	75.0	77.3
87.5°	21.1	23.4	23.4	18.7	18.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)