

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: P345147

Luminaire Tested: **22CZ-39SE-L835-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345147
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-39SE-L835-HRP-UNV-CD1-U
Description: CRUZE 2X2 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3497.7 lumens
Efficiency: N/A
Efficacy: 100.2 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

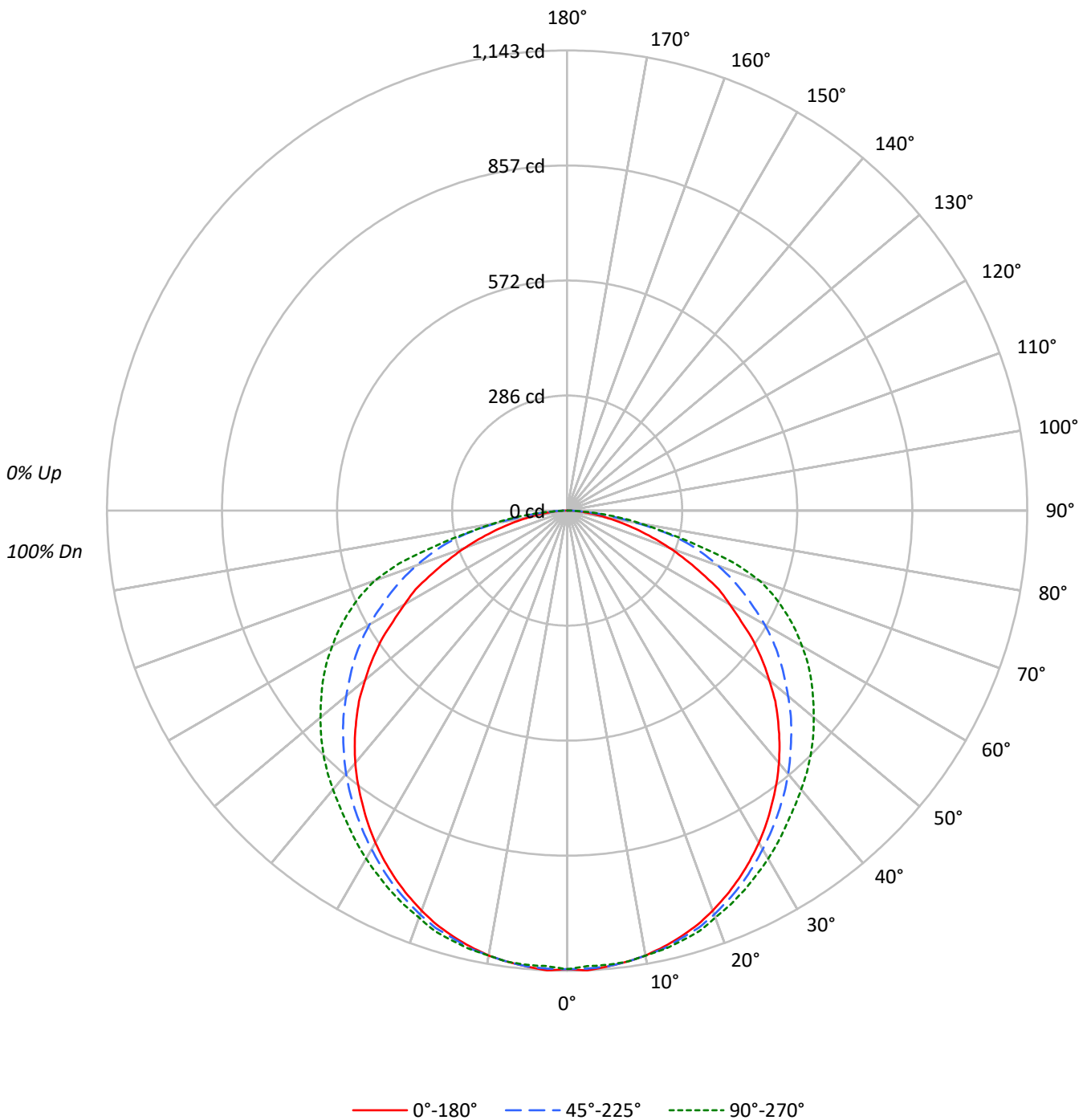
Input Watts (W): 34.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	3065	3065	3065
5°	3071	3071	3060
10°	3066	3066	3066
15°	3051	3062	3080
20°	3028	3058	3082
25°	2996	3040	3089
30°	2960	3018	3103
35°	2916	3006	3122
40°	2876	3001	3177
45°	2820	2996	3259
50°	2743	2997	3348
55°	2652	3025	3477
60°	2513	3054	3629
65°	2346	3079	3813
70°	2125	3130	4003
75°	1829	3178	3505
80°	1492	2661	2887
85°	1229	1939	2133



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.0	3.1
10°-20°	310.5	8.9
20°-30°	472.0	13.5
30°-40°	574.4	16.4
40°-50°	611.9	17.5
50°-60°	578.8	16.5
60°-70°	477.0	13.6
70°-80°	293.4	8.4
80°-90°	71.6	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°	890.6	25.5
0°-40°	1465.0	41.9
0°-60°	2655.7	75.9
0°-90°	3497.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3497.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1139	1139	1139	1139	1139	
5°	1137	1137	1137	1135	1133	108
15°	1095	1097	1099	1103	1105	309
25°	1009	1013	1024	1034	1040	465
35°	888	896	915	938	950	556
45°	741	754	787	831	856	571
55°	565	586	645	708	741	503
65°	368	404	484	561	599	366
75°	176	224	306	333	337	188
85°	40	52	63	67	69	47
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1138.9	1138.9	1138.9	1138.9	1138.9
2.5°	1143.1	1141.0	1138.9	1134.8	1132.7
5°	1136.8	1136.8	1136.8	1134.8	1132.7
7.5°	1130.6	1130.6	1130.6	1130.6	1130.6
10°	1122.2	1122.2	1122.2	1122.2	1122.2
12.5°	1109.6	1111.7	1113.8	1113.8	1115.9
15°	1095.0	1097.1	1099.2	1103.3	1105.4
17.5°	1078.2	1080.3	1086.6	1090.8	1095.0
20°	1057.3	1059.4	1067.8	1071.9	1076.1
22.5°	1034.3	1038.4	1046.8	1055.2	1059.4
25°	1009.1	1013.3	1023.8	1034.3	1040.5
27.5°	981.9	986.1	998.7	1013.3	1019.6
30°	952.6	956.8	971.4	988.2	998.7
32.5°	921.2	927.5	944.2	965.2	975.6
35°	887.7	896.1	914.9	938.0	950.5
37.5°	854.2	862.6	885.6	912.8	927.5
40°	818.6	829.1	854.2	885.6	904.5
42.5°	780.9	793.5	820.7	858.4	881.4
45°	741.1	753.7	787.2	831.2	856.3
47.5°	701.4	716.0	753.7	801.9	829.1
50°	655.3	672.1	716.0	772.6	799.8
52.5°	611.3	632.3	680.4	741.1	770.5
55°	565.3	586.2	644.8	707.7	741.1
57.5°	512.9	538.1	607.2	674.2	709.7
60°	466.9	492.0	567.4	638.6	674.2
62.5°	425.0	448.0	523.4	600.9	638.6
65°	368.5	404.1	483.6	561.1	598.8
67.5°	318.2	358.0	441.8	515.0	556.9
70°	270.1	312.0	397.8	469.0	508.8
72.5°	221.9	268.0	353.8	416.6	437.6
75°	175.9	224.0	305.7	332.9	337.1
77.5°	134.0	182.1	247.0	245.0	249.1
80°	96.3	138.2	171.7	178.0	186.3
82.5°	64.9	96.3	111.0	121.4	129.8
85°	39.8	52.3	62.8	67.0	69.1
87.5°	18.8	20.9	20.9	16.7	16.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)