

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: P345166

Luminaire Tested: **14CZ-35-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345166
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-1)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 14CZ-35-L830-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3124.5 lumens
Efficiency: N/A
Efficacy: 99.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.28 / 1.4
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

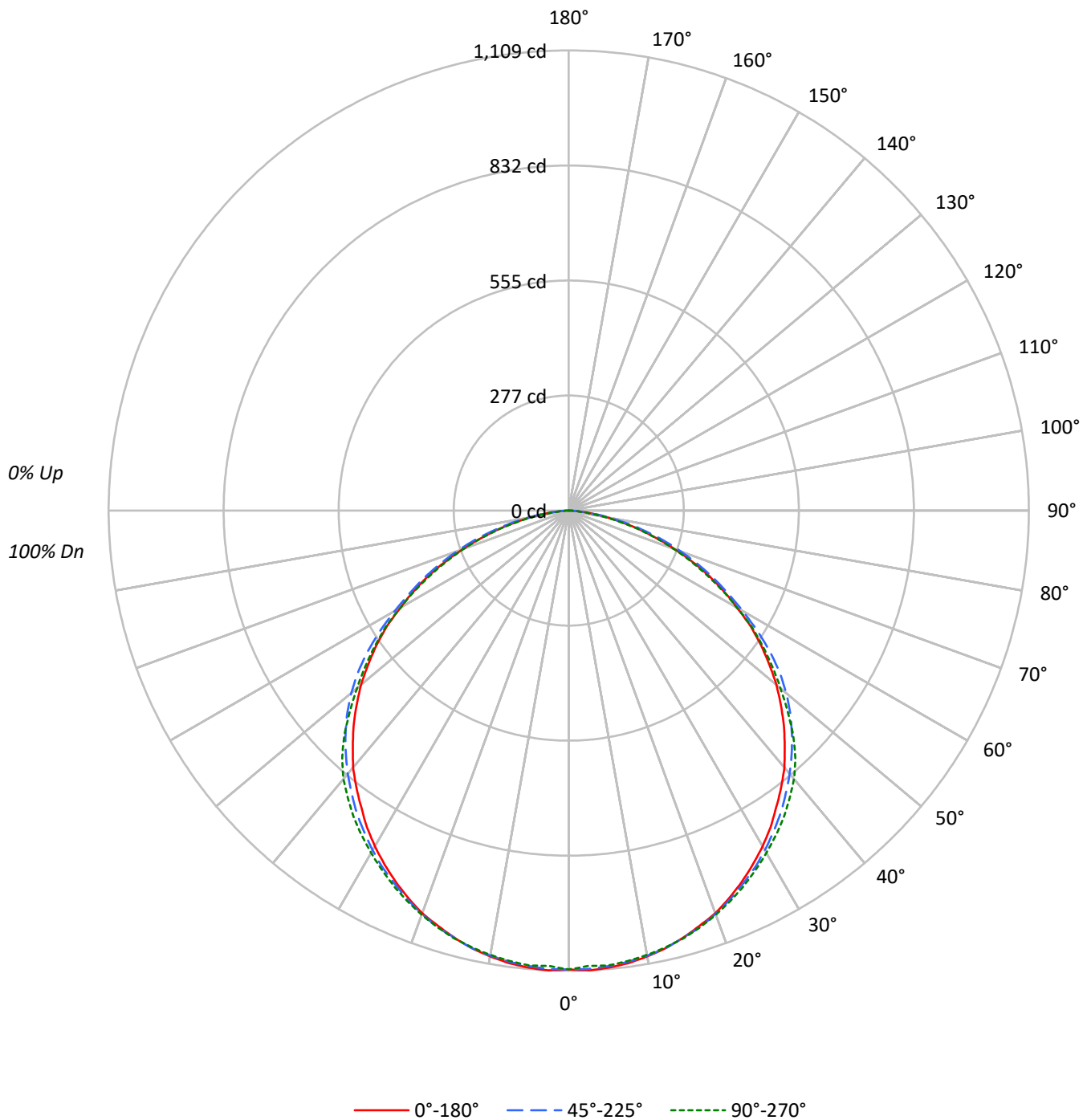
Input Watts (W): 31.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2975	2975	2975
5°	2987	2977	2972
10°	2981	2977	2971
15°	2968	2968	2974
20°	2957	2962	2968
25°	2931	2947	2963
30°	2903	2937	2959
35°	2865	2925	2967
40°	2839	2910	2968
45°	2791	2895	2909
50°	2735	2864	2788
55°	2654	2774	2679
60°	2524	2602	2524
65°	2381	2451	2335
70°	2139	2254	2110
75°	1840	1992	1802
80°	1443	1556	1300
85°	1013	902	787



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.7	3.3
10°-20°	300.6	9.6
20°-30°	456.7	14.6
30°-40°	554.8	17.8
40°-50°	579.5	18.5
50°-60°	515.4	16.5
60°-70°	376.1	12.0
70°-80°	196.2	6.3
80°-90°	40.5	1.3
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°	862.0	27.6
0°-40°	1416.8	45.3
0°-60°	2511.7	80.4
0°-90°	3124.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3124.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1106	1106	1106	1106	1106	
5°	1106	1098	1102	1100	1100	105
15°	1066	1060	1066	1067	1067	301
25°	987	983	993	994	998	455
35°	872	872	890	896	903	546
45°	734	735	761	766	764	565
55°	566	577	591	575	571	504
65°	374	394	385	374	367	368
75°	177	193	192	179	173	188
85°	33	36	29	26	26	41
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1105.7	1105.7	1105.7	1105.7	1105.7
2.5°	1109.3	1102.0	1105.7	1103.9	1098.4
5°	1105.7	1098.4	1102.0	1100.2	1100.2
7.5°	1100.2	1092.9	1096.6	1094.7	1094.7
10°	1091.1	1083.8	1089.3	1087.4	1087.4
12.5°	1080.1	1072.8	1080.1	1078.3	1078.3
15°	1065.5	1060.1	1065.5	1067.4	1067.4
17.5°	1049.1	1045.5	1052.8	1052.8	1052.8
20°	1032.7	1027.2	1034.5	1034.5	1036.4
22.5°	1010.8	1005.3	1014.5	1012.6	1018.1
25°	987.1	983.4	992.6	994.4	998.0
27.5°	961.5	959.7	970.7	972.5	976.1
30°	934.2	930.5	945.1	946.9	952.4
32.5°	905.0	905.0	917.8	921.4	928.7
35°	872.1	872.1	890.4	895.9	903.2
37.5°	841.1	841.1	859.4	868.5	874.0
40°	808.3	808.3	828.4	837.5	844.8
42.5°	770.0	771.8	795.5	804.6	808.3
45°	733.5	735.3	760.8	766.3	764.5
47.5°	693.3	698.8	724.4	720.7	715.2
50°	653.2	658.7	684.2	669.6	666.0
52.5°	609.4	618.5	640.4	620.4	618.5
55°	565.6	576.6	591.2	574.7	571.1
57.5°	520.0	534.6	538.2	527.3	523.6
60°	468.9	489.0	483.5	474.4	468.9
62.5°	421.5	439.7	432.4	423.3	417.8
65°	374.0	394.1	385.0	374.0	366.7
67.5°	322.9	346.7	335.7	322.9	317.5
70°	271.9	291.9	286.5	273.7	268.2
72.5°	222.6	240.8	239.0	226.2	220.8
75°	177.0	193.4	191.6	178.8	173.3
77.5°	133.2	149.6	144.1	133.2	127.7
80°	93.1	107.6	100.4	89.4	83.9
82.5°	60.2	67.5	60.2	51.1	47.4
85°	32.8	36.5	29.2	25.5	25.5
87.5°	10.9	12.8	12.8	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)