

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: P345174

Luminaire Tested: **14CZ-44-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345174
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-44-L830-HRP-UNV-CD1-U
Description: CRUZE 1X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3827.3 lumens
Efficiency: N/A
Efficacy: 93.1 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

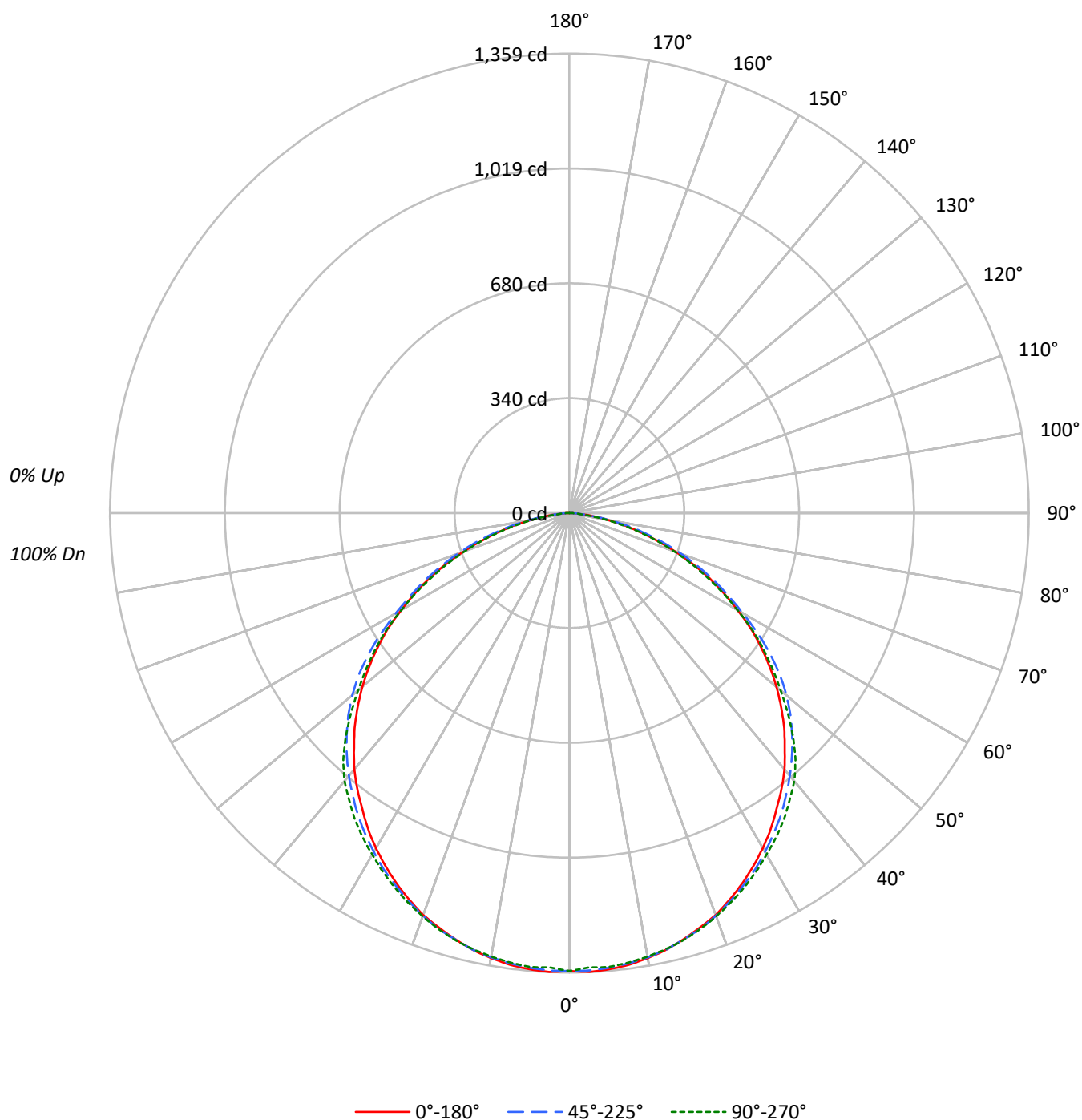
Input Watts (W): 41.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20				
RC	80				70					50					30				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	0
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	
1	109	104	100	96	106	102	98	95	98	95	92	94	91	89	90	88	86	84	
2	99	91	84	79	97	89	83	78	86	80	76	82	78	74	79	76	73	70	
3	90	80	72	65	88	78	71	65	75	69	64	73	67	63	70	66	62	59	
4	83	71	62	55	81	70	61	55	67	60	54	65	59	54	63	57	53	51	
5	76	63	54	48	74	62	54	47	60	53	47	58	52	46	56	51	46	44	
6	70	57	48	42	68	56	48	41	54	47	41	53	46	41	51	45	40	38	
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34	
8	61	47	39	33	59	46	38	33	45	38	32	44	37	32	43	37	32	30	
9	57	43	35	29	55	43	35	29	41	34	29	40	34	29	39	33	29	27	
10	53	40	32	27	52	39	32	27	38	31	26	37	31	26	36	31	26	24	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3645	3645	3645
5°	3659	3646	3640
10°	3652	3646	3640
15°	3636	3636	3642
20°	3623	3629	3635
25°	3590	3610	3630
30°	3556	3597	3625
35°	3509	3583	3634
40°	3478	3564	3635
45°	3419	3547	3564
50°	3350	3509	3415
55°	3250	3397	3282
60°	3091	3188	3091
65°	2918	3003	2860
70°	2620	2761	2585
75°	2254	2440	2207
80°	1767	1905	1593
85°	1241	1105	966



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.2	3.3
10°-20°	368.2	9.6
20°-30°	559.4	14.6
30°-40°	679.6	17.8
40°-50°	709.9	18.5
50°-60°	631.3	16.5
60°-70°	460.7	12.0
70°-80°	240.3	6.3
80°-90°	49.6	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°	1055.9	27.6
0°-40°	1735.4	45.3
0°-60°	3076.6	80.4
0°-90°	3827.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3827.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1354	1354	1354	1354	1354	
5°	1354	1345	1350	1348	1348	129
15°	1305	1298	1305	1307	1307	368
25°	1209	1205	1216	1218	1222	557
35°	1068	1068	1091	1097	1106	669
45°	898	901	932	939	936	692
55°	693	706	724	704	700	618
65°	458	483	472	458	449	451
75°	217	237	235	219	212	231
85°	40	45	36	31	31	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1354.4	1354.4	1354.4	1354.4	1354.4
2.5°	1358.8	1349.9	1354.4	1352.1	1345.4
5°	1354.4	1345.4	1349.9	1347.7	1347.7
7.5°	1347.7	1338.7	1343.2	1341.0	1341.0
10°	1336.5	1327.5	1334.2	1332.0	1332.0
12.5°	1323.1	1314.1	1323.1	1320.8	1320.8
15°	1305.2	1298.5	1305.2	1307.4	1307.4
17.5°	1285.1	1280.6	1289.5	1289.5	1289.5
20°	1265.0	1258.3	1267.2	1267.2	1269.4
22.5°	1238.1	1231.4	1242.6	1240.4	1247.1
25°	1209.1	1204.6	1215.8	1218.0	1222.5
27.5°	1177.8	1175.6	1189.0	1191.2	1195.7
30°	1144.3	1139.8	1157.7	1159.9	1166.6
32.5°	1108.5	1108.5	1124.2	1128.6	1137.6
35°	1068.3	1068.3	1090.6	1097.3	1106.3
37.5°	1030.3	1030.3	1052.6	1063.8	1070.5
40°	990.1	990.1	1014.7	1025.8	1034.8
42.5°	943.1	945.4	974.4	985.6	990.1
45°	898.4	900.7	932.0	938.7	936.4
47.5°	849.3	856.0	887.3	882.8	876.1
50°	800.1	806.8	838.1	820.2	815.7
52.5°	746.5	757.6	784.5	759.9	757.6
55°	692.8	706.2	724.1	704.0	699.5
57.5°	637.0	654.8	659.3	645.9	641.4
60°	574.4	599.0	592.3	581.1	574.4
62.5°	516.3	538.6	529.7	518.5	511.8
65°	458.2	482.7	471.6	458.2	449.2
67.5°	395.6	424.6	411.2	395.6	388.9
70°	333.0	357.6	350.9	335.2	328.5
72.5°	272.7	295.0	292.8	277.1	270.4
75°	216.8	236.9	234.7	219.0	212.3
77.5°	163.1	183.3	176.6	163.1	156.4
80°	114.0	131.9	122.9	109.5	102.8
82.5°	73.8	82.7	73.8	62.6	58.1
85°	40.2	44.7	35.8	31.3	31.3
87.5°	13.4	15.6	15.6	15.6	15.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)