

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: P345042

Luminaire Tested: **24CZ-35-L830-HRP-UNV-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P345042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1905-313-5)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-35-L830-HRP-UNV-CD1-U
Description: CRUZE 2X4 WITH HRP LENS INSERT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2938.7 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.29 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

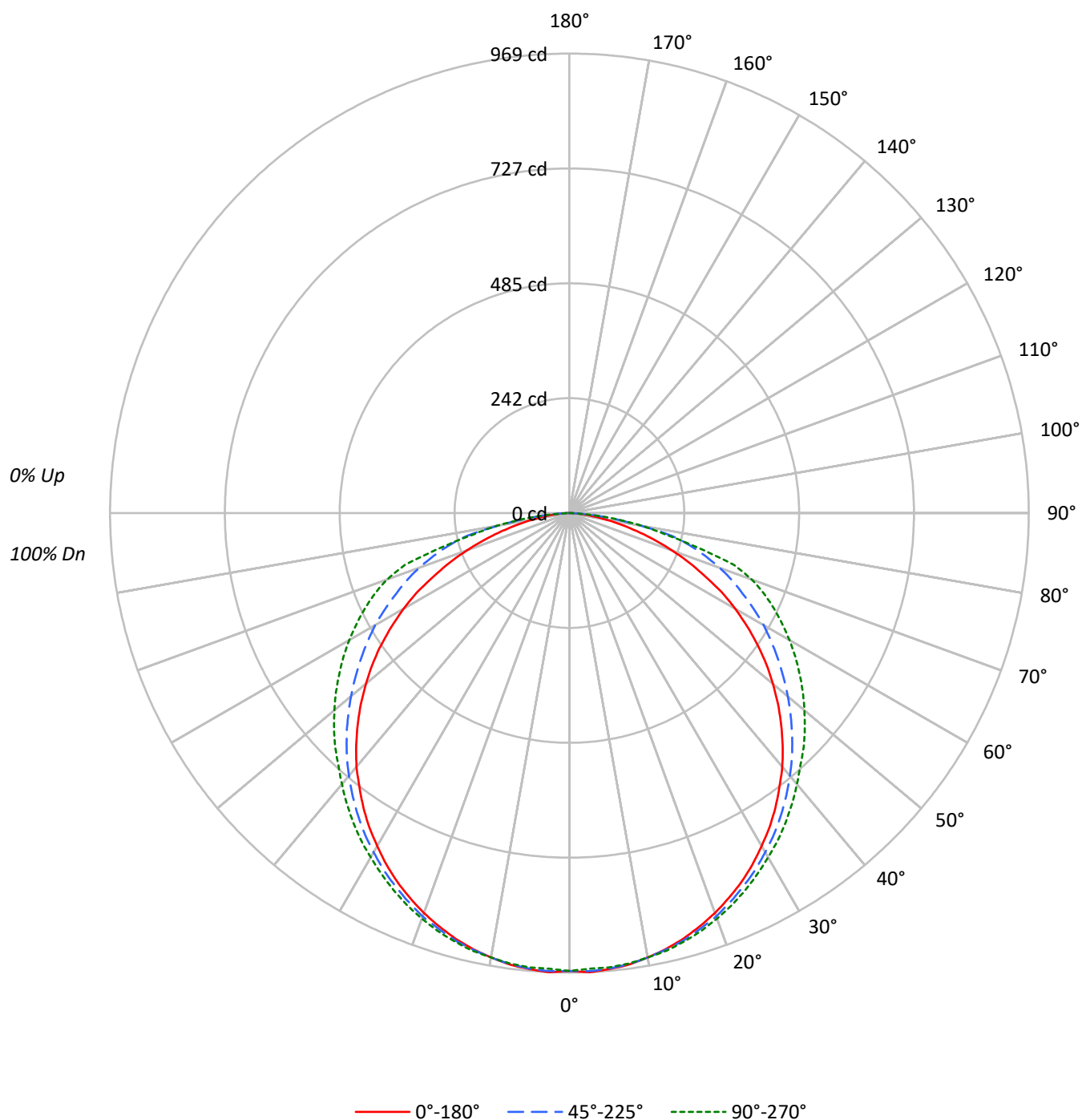
Input Watts (W): 25.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	74		81	76	72		77
3	89	78	70	63	86	76	69	62	73	67	61		71	65	60		68
4	81	69	60	53	79	68	59	52	65	58	52		63	56	51		60
5	75	61	52	45	72	60	52	45	58	50	44		56	49	44		54
6	69	55	46	39	67	54	45	39	52	45	39		51	44	38		49
7	64	50	41	35	62	49	41	34	48	40	34		46	39	34		45
8	59	45	37	31	58	45	36	31	43	36	31		42	35	30		41
9	55	42	33	28	54	41	33	28	40	33	27		39	32	27		38
10	52	38	30	25	51	38	30	25	37	30	25		36	29	25		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1299	1299	1299
5°	1304	1302	1299
10°	1300	1300	1300
15°	1294	1299	1303
20°	1285	1296	1303
25°	1275	1290	1303
30°	1260	1283	1303
35°	1245	1278	1307
40°	1227	1271	1311
45°	1202	1265	1329
50°	1173	1259	1354
55°	1137	1261	1391
60°	1087	1274	1443
65°	1006	1287	1515
70°	906	1327	1609
75°	766	1368	1439
80°	595	1171	1210
85°	428	797	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.5	3.1
10°-20°	262.8	8.9
20°-30°	399.6	13.6
30°-40°	485.5	16.5
40°-50°	512.5	17.4
50°-60°	481.5	16.4
60°-70°	396.4	13.5
70°-80°	249.8	8.5
80°-90°	59.0	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°	754.0	25.7
0°-40°	1239.5	42.2
0°-60°	2233.5	76.0
0°-90°	2938.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2938.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	966	966	966	966	966	
5°	966	960	964	963	962	92
15°	929	925	933	935	935	262
25°	858	857	869	874	877	395
35°	758	762	778	788	796	474
45°	632	642	665	684	699	487
55°	485	502	538	575	593	433
65°	316	346	404	456	476	314
75°	147	193	263	287	277	157
85°	28	47	52	48	45	35
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	965.5	965.5	965.5	965.5	965.5
2.5°	969.3	963.0	966.8	965.5	961.7
5°	965.5	960.5	964.3	963.0	961.7
7.5°	960.5	955.4	959.2	958.0	958.0
10°	951.7	947.9	951.7	951.7	951.7
12.5°	941.6	937.8	942.9	944.1	945.4
15°	929.0	925.2	932.8	935.3	935.3
17.5°	913.9	911.4	918.9	921.5	924.0
20°	897.5	896.3	905.1	907.6	910.1
22.5°	878.7	878.7	887.5	890.0	895.0
25°	858.5	857.3	868.6	873.6	877.4
27.5°	835.9	835.9	848.4	854.7	858.5
30°	810.7	813.2	825.8	833.3	838.4
32.5°	785.5	788.0	803.1	811.9	818.2
35°	757.8	761.6	778.0	788.0	795.6
37.5°	727.6	733.9	751.5	762.8	771.7
40°	698.6	703.7	723.8	736.4	746.5
42.5°	665.9	674.7	694.9	710.0	721.3
45°	631.9	642.0	664.7	683.5	698.6
47.5°	596.7	609.3	633.2	658.4	673.5
50°	560.2	574.0	601.7	631.9	647.0
52.5°	523.7	538.8	569.0	604.2	620.6
55°	484.6	502.3	537.5	575.3	592.9
57.5°	444.4	464.5	504.8	547.6	565.2
60°	404.1	425.5	473.3	516.1	536.3
62.5°	362.5	386.5	438.1	487.2	506.0
65°	316.0	346.2	404.1	455.7	475.8
67.5°	273.2	304.6	371.4	423.0	444.4
70°	230.4	266.9	337.4	389.0	409.1
72.5°	187.6	230.4	299.6	352.5	363.8
75°	147.3	192.6	263.1	287.0	276.9
77.5°	108.3	158.6	221.6	209.0	206.4
80°	76.8	125.9	151.1	152.3	156.1
82.5°	49.1	93.2	98.2	99.4	100.7
85°	27.7	46.6	51.6	47.8	45.3
87.5°	12.6	15.1	12.6	8.8	7.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)