

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: P#

Luminaire Tested: **24CZ-LD5-60-RDP-UNV-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P#
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P25713)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 24CZ-LD5-60-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

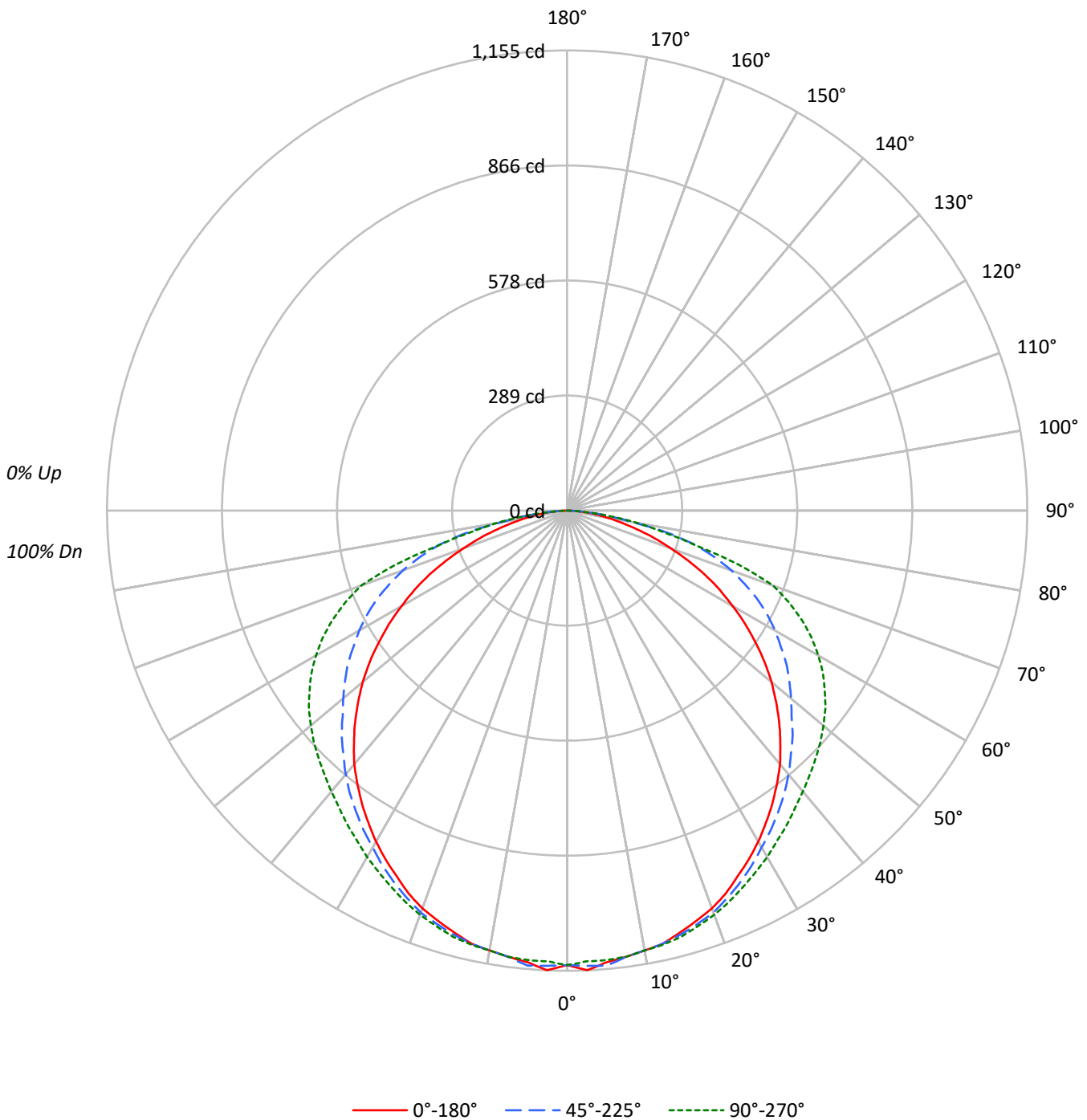
Lumens per Lamp: N/A
Luminaire Lumens: 3591.6 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 52.17
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	71	77	73	70	68
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1535	1535	1535
5°	1534	1541	1523
10°	1525	1518	1519
15°	1517	1513	1522
20°	1508	1509	1518
25°	1486	1491	1513
30°	1470	1472	1516
35°	1450	1462	1527
40°	1430	1454	1552
45°	1398	1446	1597
50°	1361	1444	1658
55°	1308	1466	1728
60°	1238	1485	1803
65°	1155	1507	1869
70°	1017	1504	1901
75°	862	1440	1442
80°	700	980	1078
85°	536	536	493



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.3	3.0
10°-20°	311.1	8.7
20°-30°	474.0	13.2
30°-40°	580.0	16.1
40°-50°	624.1	17.4
50°-60°	604.5	16.8
60°-70°	512.1	14.3
70°-80°	309.5	8.6
80°-90°	68.0	1.9
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°	893.4	24.9
0°-40°	1473.4	41.0
0°-60°	2702.0	75.2
0°-90°	3591.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3591.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1141	1141	1141	1141	1141	
5°	1138	1138	1146	1141	1132	108
15°	1096	1099	1102	1105	1107	310
25°	1012	1018	1029	1038	1043	467
35°	898	904	923	948	962	562
45°	753	767	800	851	881	580
55°	577	602	672	750	789	516
65°	382	424	527	611	650	376
75°	181	246	332	338	329	195
85°	45	53	56	53	50	50
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1140.8	1140.8	1140.8	1140.8	1140.8
2.5°	1154.7	1152.0	1143.6	1138.0	1132.4
5°	1138.0	1138.0	1146.4	1140.8	1132.4
7.5°	1129.6	1129.6	1129.6	1143.6	1129.6
10°	1121.3	1124.0	1121.3	1132.4	1121.3
12.5°	1112.9	1112.9	1112.9	1115.7	1115.7
15°	1096.1	1099.0	1101.7	1104.6	1107.3
17.5°	1079.4	1082.2	1087.8	1090.6	1093.4
20°	1062.7	1065.5	1073.9	1073.9	1079.4
22.5°	1040.3	1040.3	1051.6	1054.3	1062.7
25°	1012.5	1018.0	1029.2	1037.6	1043.2
27.5°	987.3	992.9	1004.2	1015.3	1023.6
30°	959.5	965.1	976.2	992.9	1004.2
32.5°	928.8	934.4	951.1	970.6	981.8
35°	898.1	903.7	923.2	948.3	962.3
37.5°	864.7	873.0	895.4	923.2	939.9
40°	831.2	839.5	864.7	895.4	920.5
42.5°	792.1	803.3	831.2	873.0	900.9
45°	753.1	767.0	800.5	850.7	881.4
47.5°	711.3	725.2	764.3	828.4	861.8
50°	669.4	686.2	733.6	803.3	839.5
52.5°	624.8	641.5	702.9	778.1	817.2
55°	577.4	602.5	672.2	750.3	789.4
57.5°	529.9	557.8	635.9	719.6	761.4
60°	479.8	513.2	602.5	686.2	728.0
62.5°	432.3	468.5	566.2	649.9	691.7
65°	382.1	424.0	527.2	610.8	649.9
67.5°	329.1	382.1	482.5	563.4	602.5
70°	276.2	337.5	438.0	513.2	549.5
72.5°	228.8	292.9	387.7	451.8	451.8
75°	181.3	245.5	331.9	337.5	329.1
77.5°	139.5	200.8	259.3	237.1	242.6
80°	103.2	153.4	164.5	172.9	178.5
82.5°	69.7	103.2	106.0	111.5	111.5
85°	44.6	53.0	55.8	53.0	50.2
87.5°	19.6	22.3	16.7	11.1	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)