

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-LD5-50-RDP-UNV-L850-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-LD5-50-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

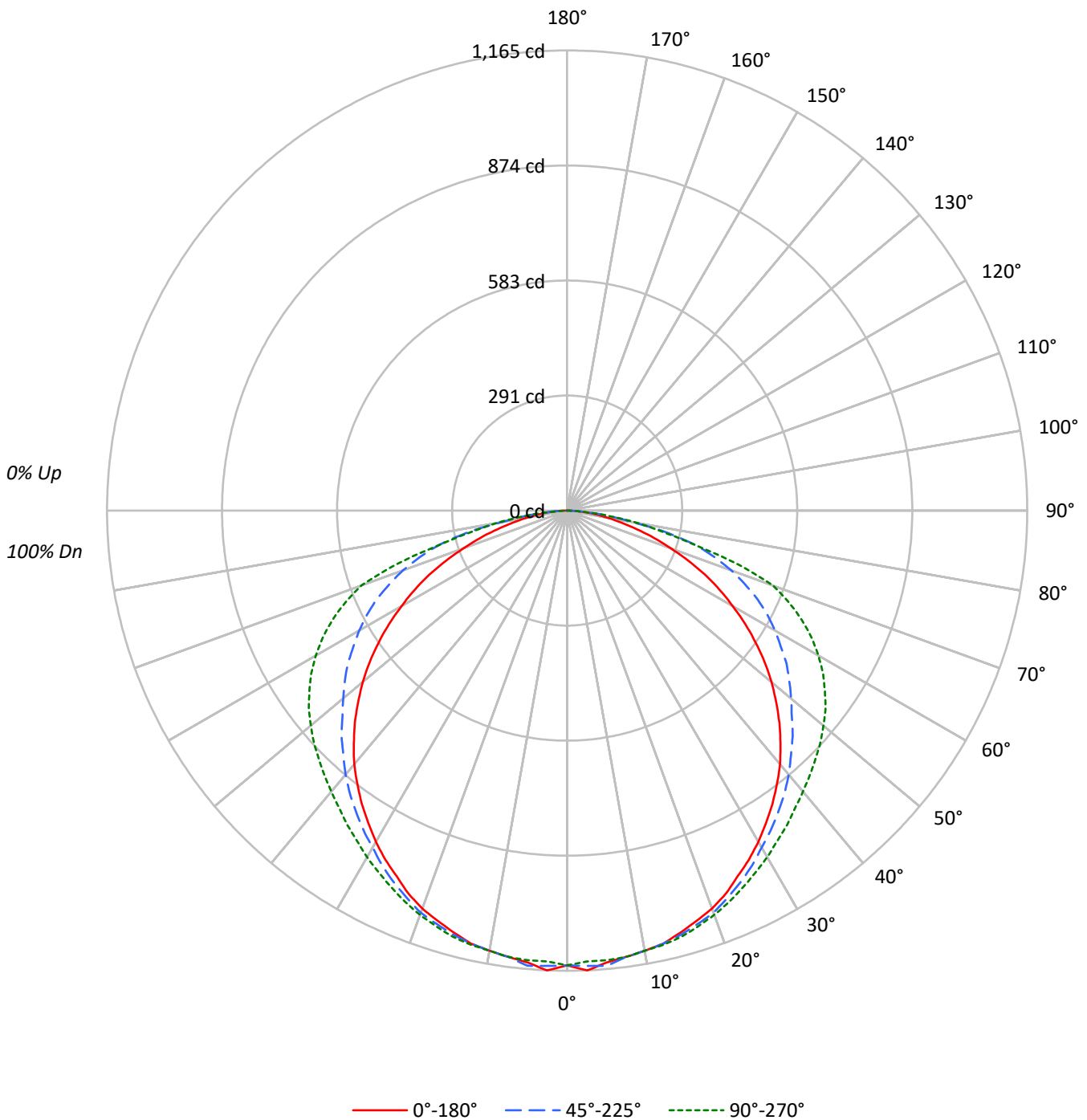
Lumens per Lamp: N/A
Luminaire Lumens: 3624.1 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 40.68
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°	1549	1549	1549
5°	1548	1555	1537
10°	1539	1531	1532
15°	1530	1527	1536
20°	1522	1522	1532
25°	1499	1505	1527
30°	1483	1485	1530
35°	1463	1475	1541
40°	1443	1467	1566
45°	1411	1459	1612
50°	1373	1457	1673
55°	1320	1479	1744
60°	1249	1498	1819
65°	1165	1520	1886
70°	1026	1517	1918
75°	870	1453	1455
80°	706	989	1087
85°	540	541	498



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	3.0
10°-20°	313.9	8.7
20°-30°	478.3	13.2
30°-40°	585.2	16.1
40°-50°	629.7	17.4
50°-60°	610.0	16.8
60°-70°	516.7	14.3
70°-80°	312.3	8.6
80°-90°	68.6	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°	901.5	24.9
0°-40°	1486.7	41.0
0°-60°	2726.4	75.2
0°-90°	3624.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1151	1151	1151	1151	1151	
5°	1148	1148	1157	1151	1143	109
15°	1106	1109	1112	1114	1117	312
25°	1022	1027	1038	1047	1053	472
35°	906	912	932	957	971	567
45°	760	774	808	858	889	586
55°	583	608	678	757	796	520
65°	386	428	532	616	656	380
75°	183	248	335	340	332	197
85°	45	54	56	54	51	51
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1151.1	1151.1	1151.1	1151.1	1151.1
2.5°	1165.2	1162.4	1153.9	1148.3	1142.7
5°	1148.3	1148.3	1156.7	1151.1	1142.7
7.5°	1139.8	1139.8	1139.8	1153.9	1139.8
10°	1131.4	1134.2	1131.4	1142.7	1131.4
12.5°	1123.0	1123.0	1123.0	1125.8	1125.8
15°	1106.1	1108.9	1111.7	1114.5	1117.3
17.5°	1089.2	1092.0	1097.6	1100.4	1103.3
20°	1072.3	1075.1	1083.6	1083.6	1089.2
22.5°	1049.8	1049.8	1061.0	1063.9	1072.3
25°	1021.6	1027.3	1038.5	1047.0	1052.6
27.5°	996.3	1001.9	1013.2	1024.4	1032.9
30°	968.2	973.8	985.0	1001.9	1013.2
32.5°	937.2	942.8	959.7	979.4	990.7
35°	906.2	911.9	931.6	956.9	971.0
37.5°	872.5	880.9	903.4	931.6	948.5
40°	838.7	847.1	872.5	903.4	928.8
42.5°	799.3	810.6	838.7	880.9	909.1
45°	759.9	774.0	807.7	858.4	889.4
47.5°	717.7	731.7	771.2	835.9	869.7
50°	675.5	692.3	740.2	810.6	847.1
52.5°	630.4	647.3	709.2	785.2	824.6
55°	582.6	607.9	678.3	757.1	796.5
57.5°	534.7	562.9	641.7	726.1	768.3
60°	484.1	517.9	607.9	692.3	734.6
62.5°	436.2	472.8	571.3	655.8	698.0
65°	385.6	427.8	531.9	616.4	655.8
67.5°	332.1	385.6	486.9	568.5	607.9
70°	278.6	340.5	441.9	517.9	554.4
72.5°	230.8	295.5	391.2	455.9	455.9
75°	182.9	247.7	334.9	340.5	332.1
77.5°	140.7	202.6	261.7	239.2	244.9
80°	104.1	154.8	166.1	174.5	180.1
82.5°	70.4	104.1	106.9	112.6	112.6
85°	45.0	53.5	56.3	53.5	50.7
87.5°	19.7	22.5	16.9	11.3	8.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)