

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-LD5-55-RDP-UNV-L835-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-LD5-55-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3624.4 lumens
Efficiency: N/A
Efficacy: 79.1 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

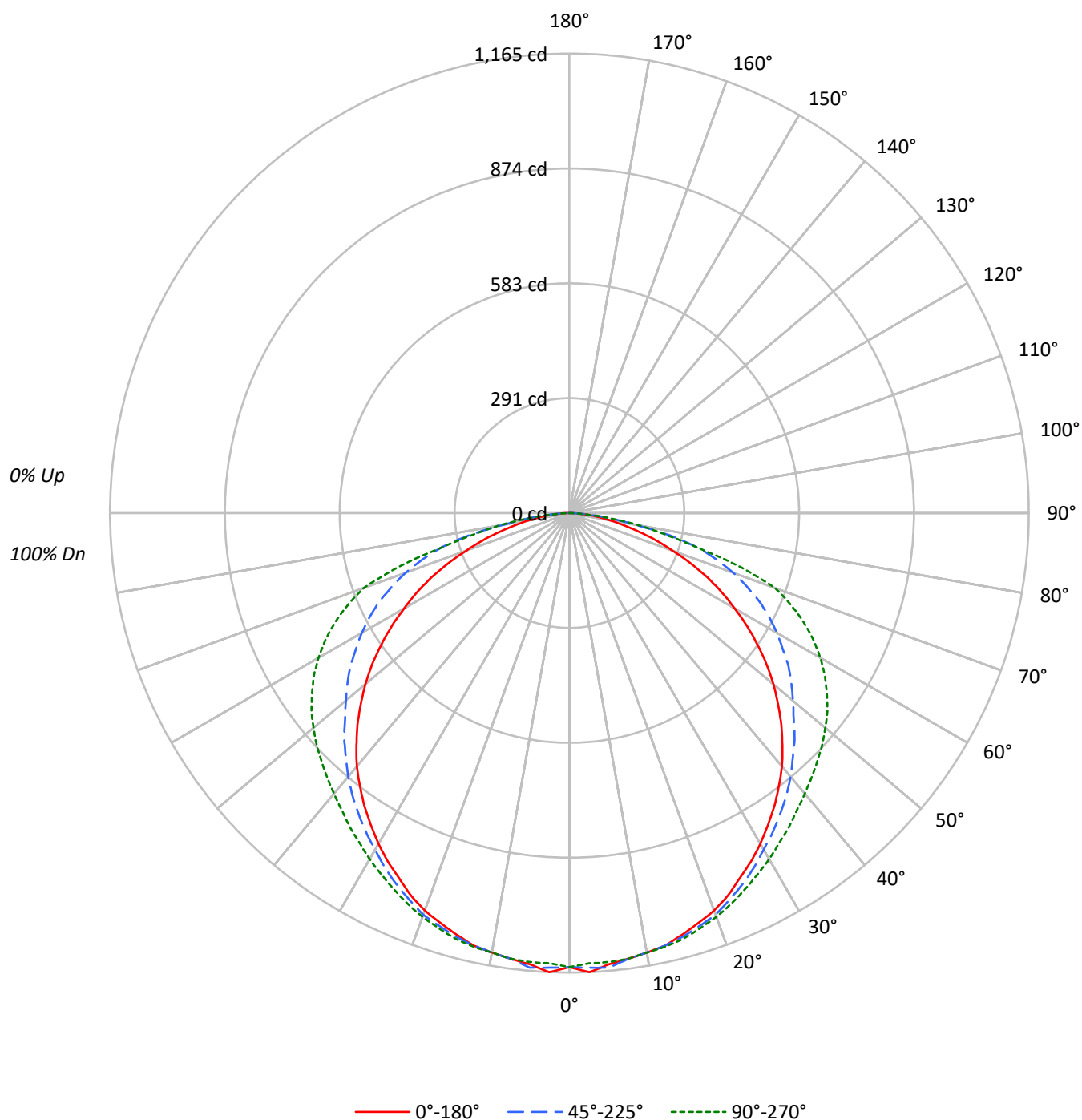
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1549	1549	1549
5°	1548	1555	1537
10°	1539	1532	1532
15°	1531	1527	1536
20°	1522	1522	1532
25°	1499	1505	1527
30°	1483	1485	1530
35°	1463	1476	1541
40°	1443	1467	1566
45°	1411	1460	1612
50°	1373	1457	1674
55°	1320	1479	1744
60°	1249	1498	1819
65°	1165	1521	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°	478.4	13.2
30°-40°	585.3	16.1
40°-50°	629.8	17.4
50°-60°	610.0	16.8
60°-70°	516.8	14.3
70°-80°	312.4	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°	901.6	24.9
0°-40°	1486.9	41.0
0°-60°	2726.6	75.2
0°-90°	3624.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3624.4	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	1115	1117	312
25°	1022	1027	1039	1047	1053	472
35°	906	912	932	957	971	567
45°	760	774	808	858	889	586
55°	583	608	678	757	797	520
65°	386	428	532	616	656	380
75°	183	248	335	341	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°	1151.2	1151.2	1151.2	1151.2	1151.2
2.5°	1165.3	1162.5	1154.0	1148.4	1142.8
5°	1148.4	1148.4	1156.8	1151.2	1142.8
7.5°	1139.9	1139.9	1139.9	1154.0	1139.9
10°	1131.5	1134.3	1131.5	1142.8	1131.5
12.5°	1123.1	1123.1	1123.1	1125.9	1125.9
15°	1106.2	1109.0	1111.8	1114.6	1117.4
17.5°	1089.3	1092.1	1097.7	1100.5	1103.4
20°	1072.4	1075.2	1083.7	1083.7	1089.3
22.5°	1049.9	1049.9	1061.1	1064.0	1072.4
25°	1021.7	1027.4	1038.6	1047.1	1052.7
27.5°	996.4	1002.0	1013.3	1024.5	1033.0
30°	968.3	973.9	985.1	1002.0	1013.3
32.5°	937.3	942.9	959.8	979.5	990.8
35°	906.3	912.0	931.7	957.0	971.1
37.5°	872.6	881.0	903.5	931.7	948.5
40°	838.8	847.2	872.6	903.5	928.8
42.5°	799.4	810.6	838.8	881.0	909.1
45°	760.0	774.0	807.8	858.5	889.4
47.5°	717.7	731.8	771.2	836.0	869.7
50°	675.5	692.4	740.3	810.6	847.2
52.5°	630.5	647.4	709.3	785.3	824.7
55°	582.6	608.0	678.3	757.2	796.6
57.5°	534.8	562.9	641.7	726.2	768.4
60°	484.1	517.9	608.0	692.4	734.6
62.5°	436.3	472.9	571.4	655.8	698.0
65°	385.6	427.8	532.0	616.4	655.8
67.5°	332.1	385.6	486.9	568.6	608.0
70°	278.7	340.6	441.9	517.9	554.5
72.5°	230.8	295.5	391.2	456.0	456.0
75°	183.0	247.7	334.9	340.6	332.1
77.5°	140.7	202.7	261.8	239.2	244.9
80°	104.1	154.8	166.1	174.5	180.1
82.5°	70.4	104.1	107.0	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)