

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-SQP-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-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3801.9 lumens
Efficiency: N/A
Efficacy: 93.5 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

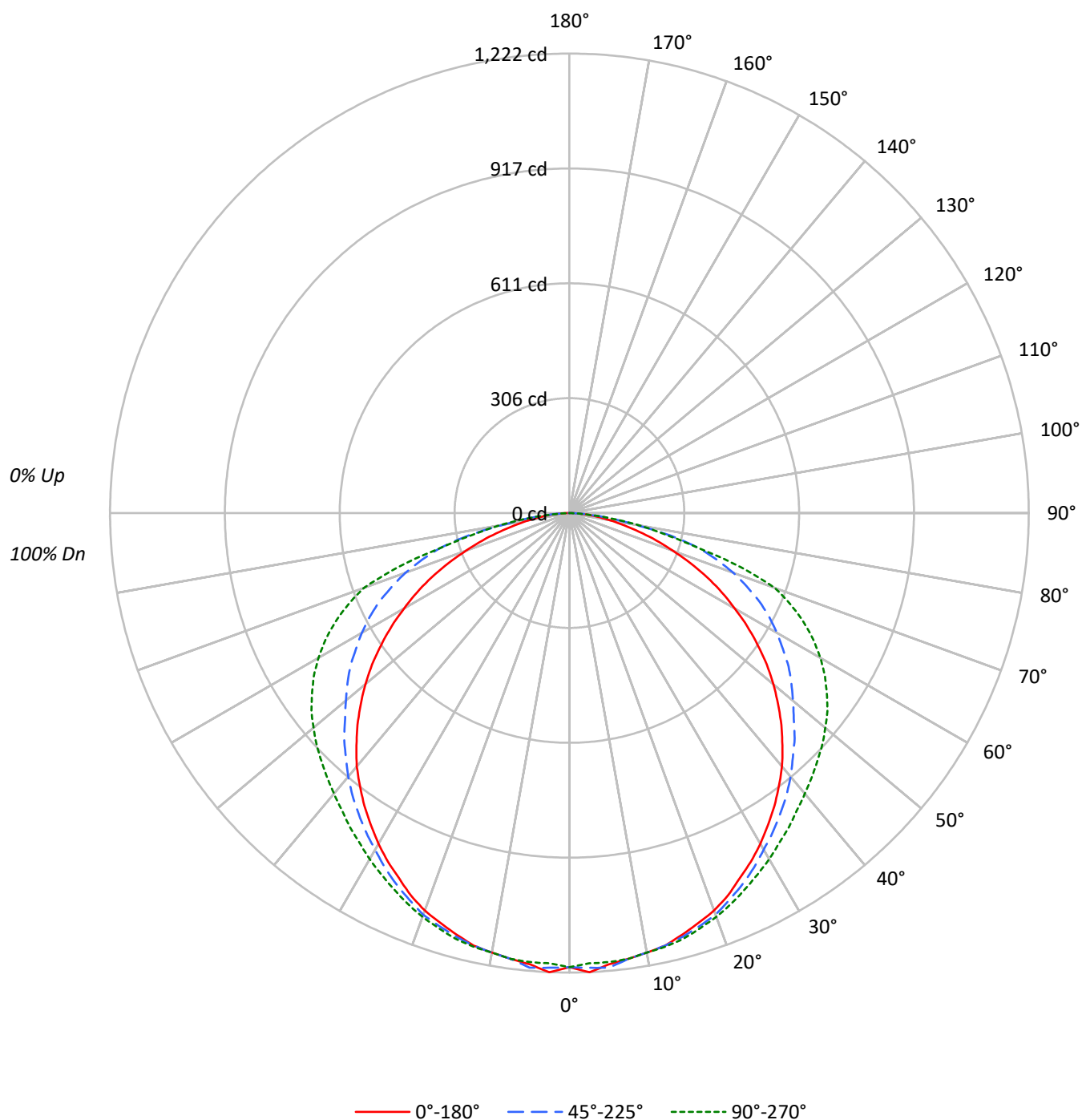
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1625	1625	1625
5°	1623	1631	1612
10°	1614	1607	1607
15°	1605	1602	1611
20°	1596	1597	1607
25°	1573	1578	1602
30°	1556	1558	1605
35°	1535	1548	1616
40°	1514	1539	1642
45°	1480	1531	1691
50°	1440	1529	1756
55°	1384	1552	1830
60°	1310	1572	1908
65°	1222	1595	1978
70°	1076	1591	2012
75°	912	1525	1526
80°	741	1038	1141
85°	567	568	522



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	3.0
10°-20°	329.3	8.7
20°-30°	501.8	13.2
30°-40°	614.0	16.1
40°-50°	660.6	17.4
50°-60°	639.9	16.8
60°-70°	542.1	14.3
70°-80°	327.7	8.6
80°-90°	72.0	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°	945.7	24.9
0°-40°	1559.7	41.0
0°-60°	2860.2	75.2
0°-90°	3801.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3801.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1208	1208	1208	1208	1208	
5°	1205	1205	1214	1208	1199	115
15°	1160	1163	1166	1169	1172	328
25°	1072	1078	1090	1098	1104	495
35°	951	957	977	1004	1019	595
45°	797	812	847	900	933	614
55°	611	638	712	794	836	546
65°	404	449	558	647	688	398
75°	192	260	351	357	348	206
85°	47	56	59	56	53	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1207.6	1207.6	1207.6	1207.6	1207.6
2.5°	1222.3	1219.4	1210.5	1204.6	1198.7
5°	1204.6	1204.6	1213.5	1207.6	1198.7
7.5°	1195.8	1195.8	1195.8	1210.5	1195.8
10°	1186.9	1189.9	1186.9	1198.7	1186.9
12.5°	1178.1	1178.1	1178.1	1181.0	1181.0
15°	1160.3	1163.3	1166.2	1169.2	1172.2
17.5°	1142.6	1145.6	1151.5	1154.4	1157.4
20°	1124.9	1127.9	1136.7	1136.7	1142.6
22.5°	1101.3	1101.3	1113.1	1116.1	1124.9
25°	1071.8	1077.7	1089.5	1098.3	1104.2
27.5°	1045.2	1051.1	1062.9	1074.7	1083.6
30°	1015.7	1021.6	1033.4	1051.1	1062.9
32.5°	983.2	989.1	1006.8	1027.5	1039.3
35°	950.7	956.6	977.3	1003.9	1018.6
37.5°	915.3	924.1	947.8	977.3	995.0
40°	879.9	888.7	915.3	947.8	974.3
42.5°	838.5	850.3	879.9	924.1	953.7
45°	797.2	811.9	847.4	900.5	933.0
47.5°	752.9	767.7	809.0	876.9	912.3
50°	708.6	726.3	776.5	850.3	888.7
52.5°	661.4	679.1	744.0	823.8	865.1
55°	611.2	637.7	711.6	794.2	835.6
57.5°	561.0	590.5	673.2	761.8	806.0
60°	507.8	543.3	637.7	726.3	770.6
62.5°	457.6	496.0	599.4	687.9	732.2
65°	404.5	448.8	558.0	646.6	687.9
67.5°	348.4	404.5	510.8	596.4	637.7
70°	292.3	357.3	463.5	543.3	581.6
72.5°	242.1	310.0	410.4	478.3	478.3
75°	191.9	259.8	351.4	357.3	348.4
77.5°	147.6	212.6	274.6	251.0	256.9
80°	109.2	162.4	174.2	183.1	189.0
82.5°	73.8	109.2	112.2	118.1	118.1
85°	47.2	56.1	59.1	56.1	53.1
87.5°	20.7	23.6	17.7	11.8	8.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)