

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-L840-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-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3514.7 lumens
Efficiency: N/A
Efficacy: 86.4 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

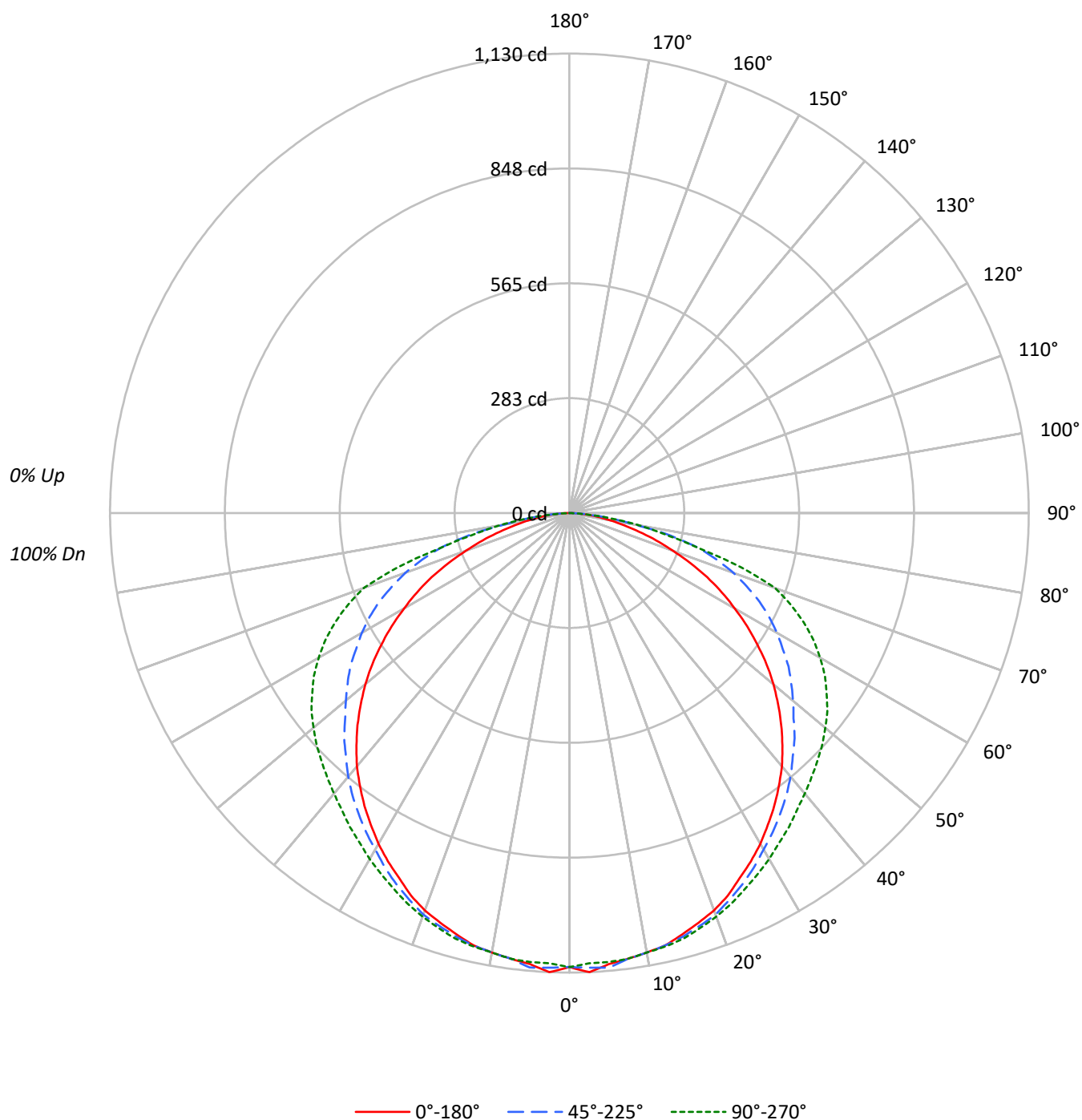
Input Watts (W): 40.68
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
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	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1502	1502	1502
5°	1501	1508	1490
10°	1493	1485	1486
15°	1484	1481	1489
20°	1476	1476	1485
25°	1454	1459	1481
30°	1438	1440	1484
35°	1419	1431	1494
40°	1399	1423	1518
45°	1368	1416	1563
50°	1332	1413	1623
55°	1280	1434	1691
60°	1211	1453	1764
65°	1130	1475	1829
70°	995	1471	1860
75°	844	1410	1411
80°	685	959	1055
85°	525	525	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.0
10°-20°	304.4	8.7
20°-30°	463.9	13.2
30°-40°	567.6	16.1
40°-50°	610.7	17.4
50°-60°	591.6	16.8
60°-70°	501.1	14.3
70°-80°	302.9	8.6
80°-90°	66.6	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°	874.3	24.9
0°-40°	1441.9	41.0
0°-60°	2644.1	75.2
0°-90°	3514.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3514.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1114	1114	1122	1116	1108	106
15°	1073	1075	1078	1081	1084	303
25°	991	996	1007	1015	1021	457
35°	879	884	904	928	942	550
45°	737	751	783	832	862	568
55°	565	590	658	734	772	505
65°	374	415	516	598	636	368
75°	177	240	325	330	322	191
85°	44	52	55	52	49	49
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.4	1116.4	1116.4	1116.4	1116.4
2.5°	1130.0	1127.3	1119.1	1113.6	1108.2
5°	1113.6	1113.6	1121.8	1116.4	1108.2
7.5°	1105.4	1105.4	1105.4	1119.1	1105.4
10°	1097.3	1100.0	1097.3	1108.2	1097.3
12.5°	1089.1	1089.1	1089.1	1091.8	1091.8
15°	1072.7	1075.4	1078.2	1080.9	1083.6
17.5°	1056.3	1059.0	1064.5	1067.2	1070.0
20°	1039.9	1042.7	1050.9	1050.9	1056.3
22.5°	1018.1	1018.1	1029.0	1031.8	1039.9
25°	990.8	996.3	1007.2	1015.4	1020.8
27.5°	966.2	971.7	982.6	993.5	1001.7
30°	938.9	944.4	955.3	971.7	982.6
32.5°	908.9	914.4	930.8	949.9	960.8
35°	878.9	884.4	903.5	928.0	941.7
37.5°	846.1	854.3	876.2	903.5	919.8
40°	813.4	821.6	846.1	876.2	900.7
42.5°	775.2	786.1	813.4	854.3	881.6
45°	737.0	750.6	783.4	832.5	862.5
47.5°	696.0	709.7	747.9	810.7	843.4
50°	655.1	671.5	717.9	786.1	821.6
52.5°	611.4	627.8	687.8	761.5	799.7
55°	565.0	589.6	657.8	734.2	772.4
57.5°	518.6	545.9	622.3	704.2	745.2
60°	469.5	502.2	589.6	671.5	712.4
62.5°	423.1	458.6	554.1	636.0	676.9
65°	373.9	414.9	515.9	597.8	636.0
67.5°	322.1	373.9	472.2	551.4	589.6
70°	270.2	330.3	428.5	502.2	537.7
72.5°	223.8	286.6	379.4	442.2	442.2
75°	177.4	240.2	324.8	330.3	322.1
77.5°	136.5	196.5	253.8	232.0	237.5
80°	101.0	150.1	161.0	169.2	174.7
82.5°	68.2	101.0	103.7	109.2	109.2
85°	43.7	51.9	54.6	51.9	49.1
87.5°	19.1	21.8	16.4	10.9	8.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)