

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-LD5-50SE-SQP-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-LD5-50SE-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3513.5 lumens
Efficiency: N/A
Efficacy: 75.5 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

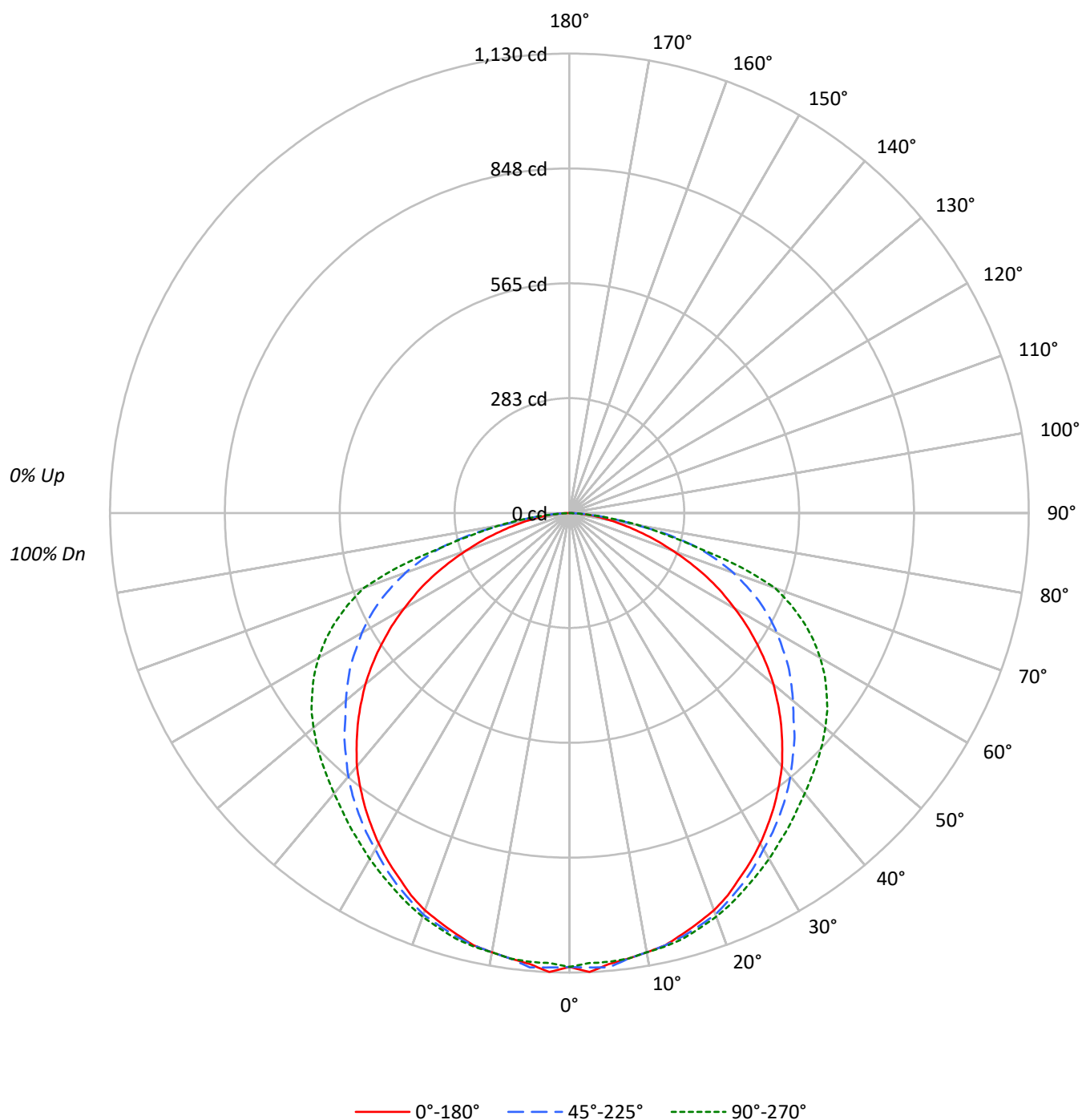
Input Watts (W): 46.56
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1502	1502	1502
5°	1500	1508	1490
10°	1492	1485	1486
15°	1484	1480	1489
20°	1475	1476	1485
25°	1454	1459	1480
30°	1437	1440	1483
35°	1418	1430	1494
40°	1399	1422	1518
45°	1368	1415	1562
50°	1331	1413	1622
55°	1279	1434	1691
60°	1210	1453	1764
65°	1130	1474	1828
70°	994	1471	1859
75°	844	1409	1411
80°	685	959	1054
85°	525	525	482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.0	3.0
10°-20°	304.3	8.7
20°-30°	463.7	13.2
30°-40°	567.4	16.1
40°-50°	610.5	17.4
50°-60°	591.4	16.8
60°-70°	501.0	14.3
70°-80°	302.8	8.6
80°-90°	66.5	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°	874.0	24.9
0°-40°	1441.4	41.0
0°-60°	2643.2	75.2
0°-90°	3513.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3513.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1116	1116	1116	1116	1116	
5°	1113	1113	1121	1116	1108	106
15°	1072	1075	1078	1080	1083	303
25°	990	996	1007	1015	1020	457
35°	879	884	903	928	941	550
45°	737	750	783	832	862	568
55°	565	589	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°	1116.0	1116.0	1116.0	1116.0	1116.0
2.5°	1129.6	1126.9	1118.7	1113.3	1107.8
5°	1113.3	1113.3	1121.4	1116.0	1107.8
7.5°	1105.1	1105.1	1105.1	1118.7	1105.1
10°	1096.9	1099.6	1096.9	1107.8	1096.9
12.5°	1088.7	1088.7	1088.7	1091.4	1091.4
15°	1072.3	1075.1	1077.8	1080.5	1083.2
17.5°	1056.0	1058.7	1064.1	1066.9	1069.6
20°	1039.6	1042.3	1050.5	1050.5	1056.0
22.5°	1017.8	1017.8	1028.7	1031.4	1039.6
25°	990.5	995.9	1006.8	1015.0	1020.5
27.5°	965.9	971.4	982.3	993.2	1001.4
30°	938.6	944.1	955.0	971.4	982.3
32.5°	908.6	914.1	930.4	949.5	960.5
35°	878.6	884.1	903.2	927.7	941.4
37.5°	845.9	854.0	875.9	903.2	919.5
40°	813.1	821.3	845.9	875.9	900.4
42.5°	774.9	785.8	813.1	854.0	881.3
45°	736.7	750.4	783.1	832.2	862.2
47.5°	695.8	709.4	747.6	810.4	843.1
50°	654.9	671.2	717.6	785.8	821.3
52.5°	611.2	627.6	687.6	761.3	799.5
55°	564.8	589.4	657.6	734.0	772.2
57.5°	518.4	545.7	622.1	704.0	744.9
60°	469.3	502.1	589.4	671.2	712.2
62.5°	422.9	458.4	553.9	635.8	676.7
65°	373.8	414.7	515.7	597.6	635.8
67.5°	322.0	373.8	472.0	551.2	589.4
70°	270.1	330.2	428.4	502.1	537.5
72.5°	223.7	286.5	379.3	442.0	442.0
75°	177.4	240.1	324.7	330.2	322.0
77.5°	136.4	196.5	253.8	231.9	237.4
80°	101.0	150.1	161.0	169.2	174.6
82.5°	68.2	101.0	103.7	109.1	109.1
85°	43.7	51.8	54.6	51.8	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)