

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-LD5-60-SQP-UNV-L830-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-LD5-60-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3767.8 lumens
Efficiency: N/A
Efficacy: 72.2 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

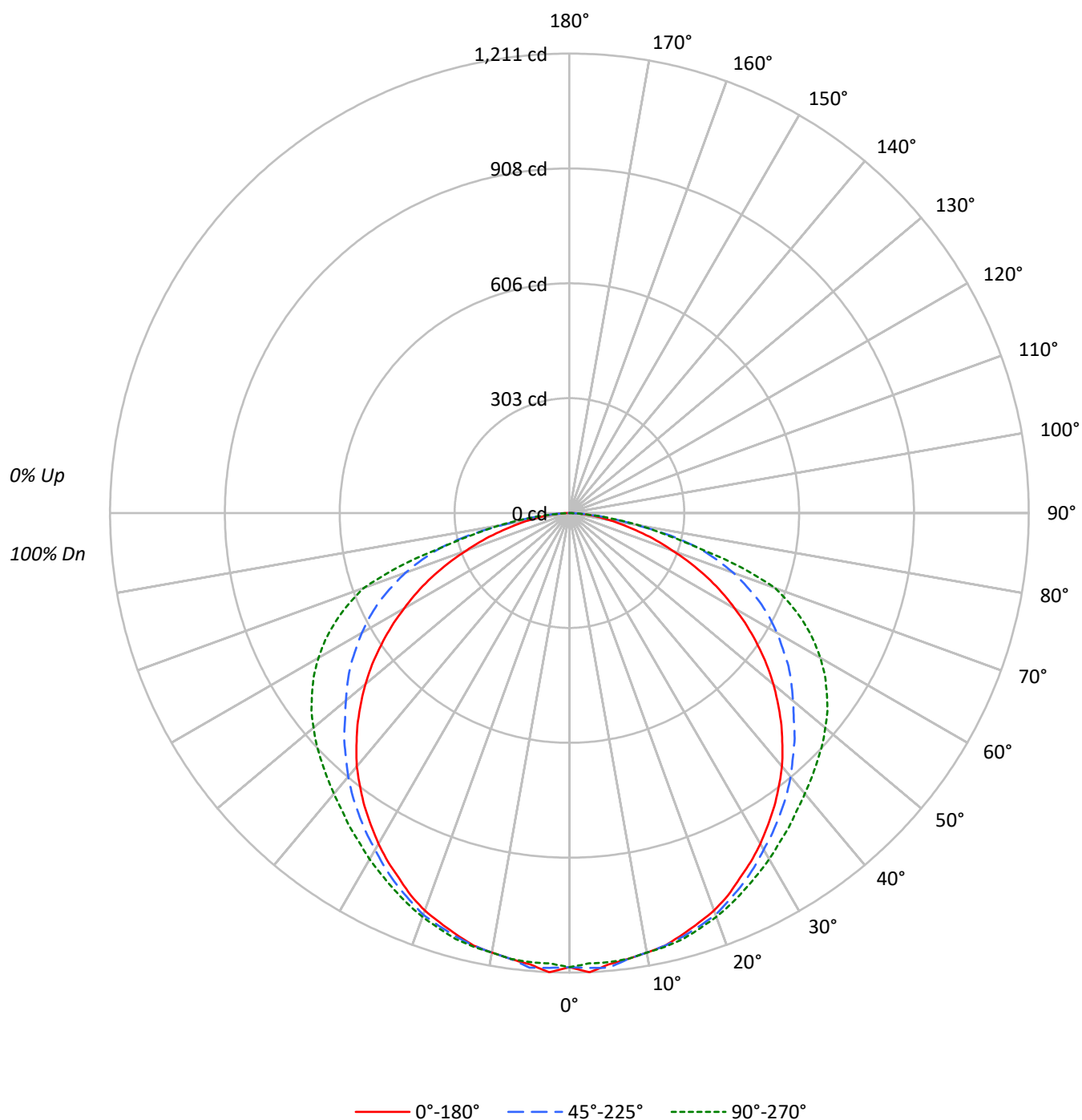
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1610	1610	1610
5°	1609	1617	1598
10°	1600	1592	1593
15°	1591	1587	1597
20°	1582	1582	1592
25°	1559	1564	1588
30°	1541	1544	1591
35°	1521	1534	1602
40°	1500	1525	1628
45°	1467	1518	1676
50°	1427	1515	1740
55°	1372	1538	1813
60°	1298	1558	1891
65°	1211	1581	1960
70°	1066	1577	1994
75°	904	1511	1512
80°	735	1028	1130
85°	562	562	517



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.6	3.0
10°-20°	326.3	8.7
20°-30°	497.3	13.2
30°-40°	608.5	16.1
40°-50°	654.7	17.4
50°-60°	634.2	16.8
60°-70°	537.2	14.3
70°-80°	324.7	8.6
80°-90°	71.3	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°	937.2	24.9
0°-40°	1545.7	41.0
0°-60°	2834.5	75.2
0°-90°	3767.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3767.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1197	1197	1197	1197	1197	
5°	1194	1194	1203	1197	1188	113
15°	1150	1153	1156	1159	1162	325
25°	1062	1068	1080	1088	1094	490
35°	942	948	968	995	1010	589
45°	790	805	840	892	925	609
55°	606	632	705	787	828	541
65°	401	445	553	641	682	395
75°	190	257	348	354	345	204
85°	47	56	58	56	53	53
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1196.7	1196.7	1196.7	1196.7	1196.7
2.5°	1211.3	1208.5	1199.7	1193.9	1188.0
5°	1193.9	1193.9	1202.6	1196.7	1188.0
7.5°	1185.0	1185.0	1185.0	1199.7	1185.0
10°	1176.3	1179.2	1176.3	1188.0	1176.3
12.5°	1167.5	1167.5	1167.5	1170.4	1170.4
15°	1150.0	1152.8	1155.8	1158.7	1161.7
17.5°	1132.4	1135.3	1141.1	1144.1	1147.0
20°	1114.8	1117.8	1126.5	1126.5	1132.4
22.5°	1091.5	1091.5	1103.1	1106.1	1114.8
25°	1062.2	1068.0	1079.7	1088.5	1094.3
27.5°	1035.8	1041.7	1053.4	1065.0	1073.9
30°	1006.5	1012.4	1024.1	1041.7	1053.4
32.5°	974.4	980.2	997.8	1018.3	1030.0
35°	942.2	948.0	968.5	994.8	1009.5
37.5°	907.1	915.9	939.3	968.5	986.1
40°	872.0	880.7	907.1	939.3	965.6
42.5°	831.0	842.7	872.0	915.9	945.2
45°	790.0	804.6	839.8	892.4	924.6
47.5°	746.1	760.8	801.7	869.1	904.1
50°	702.2	719.8	769.6	842.7	880.7
52.5°	655.4	673.0	737.4	816.3	857.4
55°	605.7	632.0	705.2	787.1	828.1
57.5°	555.9	585.2	667.2	755.0	798.9
60°	503.3	538.4	632.0	719.8	763.7
62.5°	453.5	491.6	594.0	681.8	725.7
65°	400.9	444.8	553.0	640.8	681.8
67.5°	345.2	400.9	506.3	591.1	632.0
70°	289.7	354.1	459.4	538.4	576.5
72.5°	240.0	307.2	406.7	474.0	474.0
75°	190.2	257.4	348.2	354.1	345.2
77.5°	146.3	210.7	272.1	248.7	254.6
80°	108.3	160.9	172.6	181.4	187.2
82.5°	73.1	108.3	111.2	117.0	117.0
85°	46.8	55.6	58.5	55.6	52.6
87.5°	20.5	23.4	17.6	11.7	8.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)