

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-LD5-65-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-LD5-65-SQP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4064.3 lumens
Efficiency: N/A
Efficacy: 70.5 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

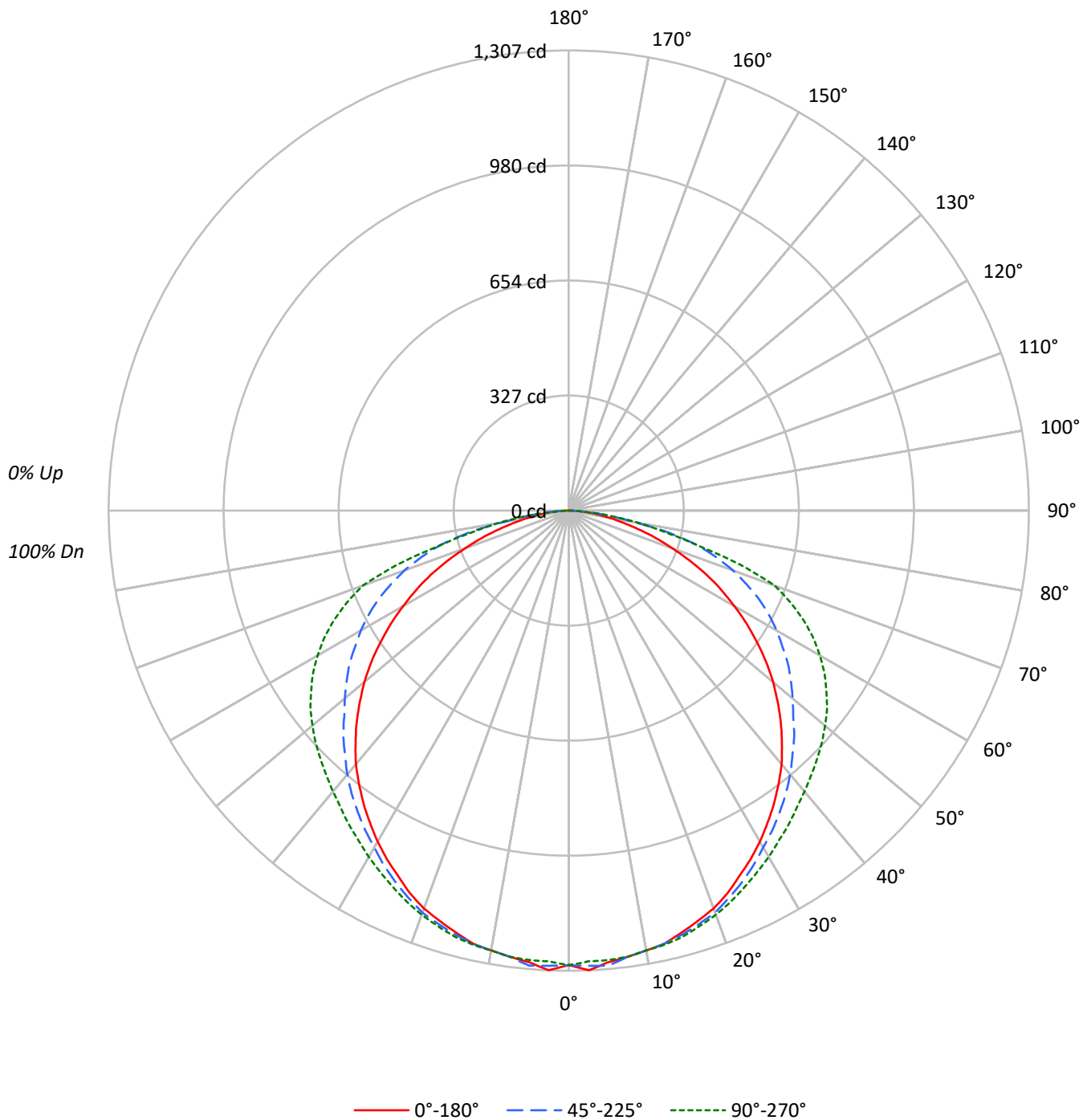
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1737	1737	1737
5°	1736	1744	1723
10°	1726	1717	1718
15°	1716	1712	1722
20°	1706	1707	1718
25°	1681	1687	1713
30°	1663	1665	1716
35°	1641	1655	1728
40°	1618	1645	1756
45°	1582	1637	1807
50°	1540	1634	1877
55°	1480	1659	1956
60°	1400	1680	2040
65°	1307	1705	2115
70°	1150	1701	2151
75°	976	1630	1632
80°	793	1109	1219
85°	606	606	558



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	3.0
10°-20°	352.0	8.7
20°-30°	536.4	13.2
30°-40°	656.3	16.1
40°-50°	706.2	17.4
50°-60°	684.1	16.8
60°-70°	579.5	14.3
70°-80°	350.3	8.6
80°-90°	77.0	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°	1011.0	24.9
0°-40°	1667.3	41.0
0°-60°	3057.6	75.2
0°-90°	4064.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4064.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1291	1291	1291	1291	1291	
5°	1288	1288	1297	1291	1282	122
15°	1240	1244	1247	1250	1253	350
25°	1146	1152	1165	1174	1180	529
35°	1016	1023	1045	1073	1089	636
45°	852	868	906	963	997	657
55°	653	682	761	849	893	584
65°	432	480	596	691	735	426
75°	205	278	376	382	372	220
85°	50	60	63	60	57	57
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1291.0	1291.0	1291.0	1291.0	1291.0
2.5°	1306.7	1303.6	1294.1	1287.8	1281.5
5°	1287.8	1287.8	1297.2	1291.0	1281.5
7.5°	1278.3	1278.3	1278.3	1294.1	1278.3
10°	1268.8	1272.0	1268.8	1281.5	1268.8
12.5°	1259.4	1259.4	1259.4	1262.6	1262.6
15°	1240.4	1243.6	1246.8	1249.9	1253.0
17.5°	1221.5	1224.6	1231.0	1234.1	1237.3
20°	1202.6	1205.7	1215.2	1215.2	1221.5
22.5°	1177.3	1177.3	1190.0	1193.1	1202.6
25°	1145.8	1152.1	1164.7	1174.2	1180.5
27.5°	1117.4	1123.7	1136.3	1148.9	1158.3
30°	1085.8	1092.1	1104.8	1123.7	1136.3
32.5°	1051.1	1057.4	1076.4	1098.4	1111.0
35°	1016.3	1022.7	1044.7	1073.1	1089.0
37.5°	978.5	987.9	1013.2	1044.7	1063.7
40°	940.6	950.1	978.5	1013.2	1041.6
42.5°	896.4	909.1	940.6	987.9	1019.5
45°	852.2	868.0	905.9	962.7	997.4
47.5°	804.8	820.6	864.9	937.5	975.3
50°	757.5	776.4	830.1	909.1	950.1
52.5°	707.0	726.0	795.4	880.6	924.8
55°	653.4	681.8	760.7	849.0	893.3
57.5°	599.7	631.3	719.6	814.3	861.6
60°	542.9	580.7	681.8	776.4	823.8
62.5°	489.2	530.3	640.8	735.4	782.8
65°	432.4	479.8	596.5	691.2	735.4
67.5°	372.5	432.4	546.1	637.5	681.8
70°	312.5	381.9	495.5	580.7	621.8
72.5°	258.8	331.5	438.7	511.3	511.3
75°	205.2	277.8	375.6	381.9	372.5
77.5°	157.8	227.2	293.6	268.3	274.6
80°	116.8	173.6	186.2	195.7	202.0
82.5°	78.9	116.8	120.0	126.3	126.3
85°	50.5	59.9	63.1	59.9	56.8
87.5°	22.1	25.3	18.9	12.6	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)