

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-RDP-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-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3874.2 lumens
Efficiency: N/A
Efficacy: 67.2 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

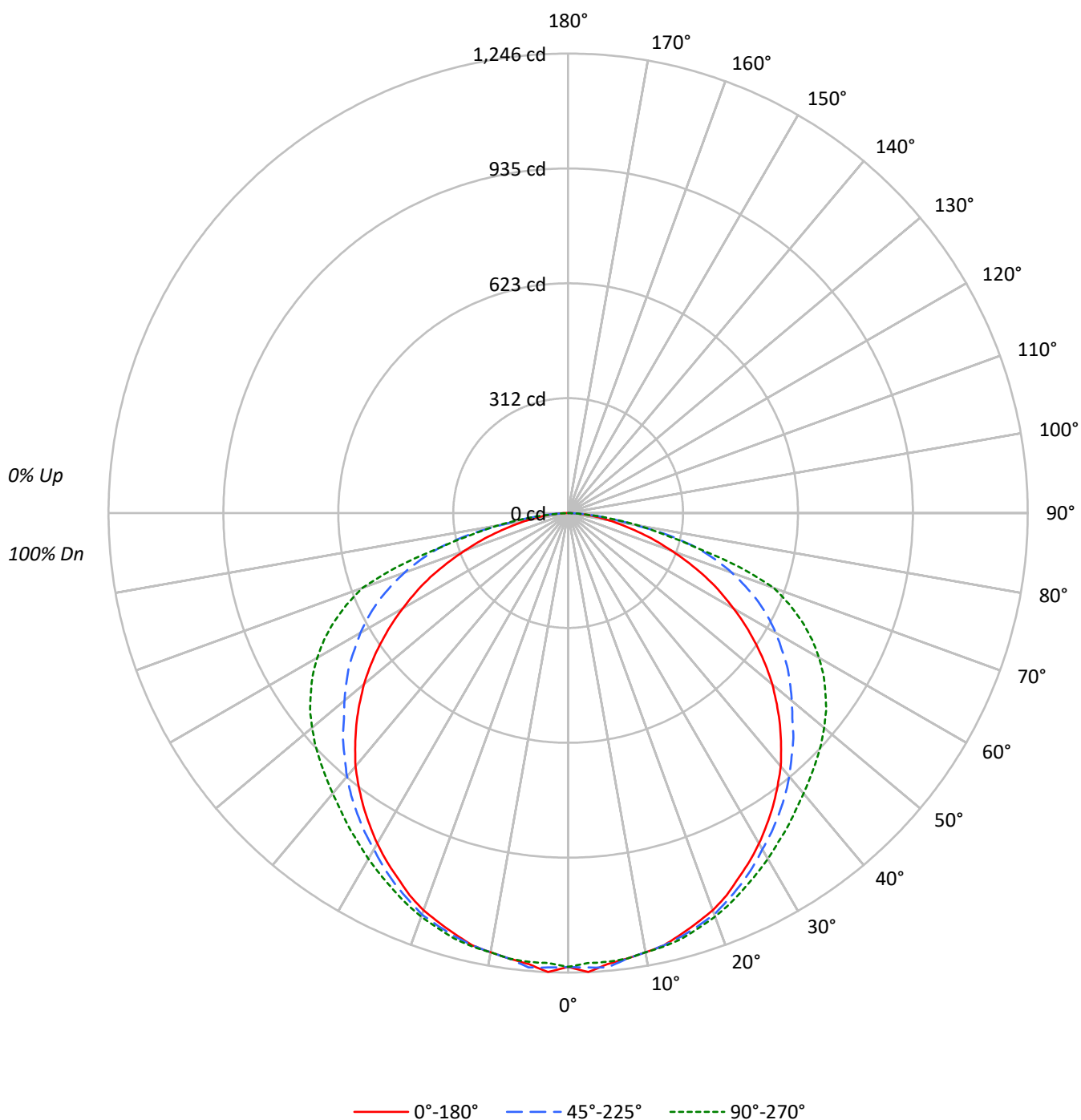
Input Watts (W): 57.64
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1656	1656	1656
5°	1654	1662	1643
10°	1645	1637	1638
15°	1636	1632	1642
20°	1627	1627	1637
25°	1603	1608	1633
30°	1585	1588	1636
35°	1564	1577	1647
40°	1542	1568	1674
45°	1508	1560	1723
50°	1468	1558	1789
55°	1411	1581	1864
60°	1335	1602	1945
65°	1246	1626	2016
70°	1096	1622	2050
75°	930	1554	1555
80°	755	1058	1163
85°	579	578	532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	3.0
10°-20°	335.5	8.7
20°-30°	511.3	13.2
30°-40°	625.6	16.1
40°-50°	673.2	17.4
50°-60°	652.1	16.8
60°-70°	552.4	14.3
70°-80°	333.9	8.6
80°-90°	73.4	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°	963.7	24.9
0°-40°	1589.3	41.0
0°-60°	2914.6	75.2
0°-90°	3874.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3874.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1228	1228	1237	1230	1222	117
15°	1182	1185	1188	1192	1194	334
25°	1092	1098	1110	1119	1125	504
35°	969	975	996	1023	1038	606
45°	812	827	864	918	951	626
55°	623	650	725	809	852	556
65°	412	457	569	659	701	406
75°	196	265	358	364	355	210
85°	48	57	60	57	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1230.5	1230.5	1230.5	1230.5	1230.5
2.5°	1245.6	1242.6	1233.6	1227.6	1221.5
5°	1227.6	1227.6	1236.6	1230.5	1221.5
7.5°	1218.6	1218.6	1218.6	1233.6	1218.6
10°	1209.5	1212.5	1209.5	1221.5	1209.5
12.5°	1200.5	1200.5	1200.5	1203.5	1203.5
15°	1182.5	1185.4	1188.4	1191.5	1194.4
17.5°	1164.4	1167.4	1173.4	1176.4	1179.4
20°	1146.4	1149.3	1158.3	1158.3	1164.4
22.5°	1122.2	1122.2	1134.3	1137.3	1146.4
25°	1092.1	1098.2	1110.2	1119.2	1125.3
27.5°	1065.0	1071.1	1083.1	1095.2	1104.2
30°	1035.0	1041.0	1053.1	1071.1	1083.1
32.5°	1001.9	1008.0	1026.0	1047.0	1059.1
35°	968.8	974.8	995.9	1023.0	1038.0
37.5°	932.7	941.7	965.8	995.9	1013.9
40°	896.6	905.6	932.7	965.8	992.8
42.5°	854.4	866.5	896.6	941.7	971.8
45°	812.3	827.4	863.5	917.7	950.8
47.5°	767.2	782.2	824.4	893.6	929.7
50°	722.1	740.1	791.3	866.5	905.6
52.5°	673.9	692.0	758.2	839.4	881.6
55°	622.8	649.9	725.1	809.3	851.5
57.5°	571.6	601.7	686.0	776.2	821.4
60°	517.5	553.6	649.9	740.1	785.3
62.5°	466.4	505.5	610.8	701.0	746.1
65°	412.2	457.3	568.7	658.9	701.0
67.5°	355.0	412.2	520.5	607.7	649.9
70°	297.8	364.0	472.3	553.6	592.7
72.5°	246.7	315.9	418.2	487.4	487.4
75°	195.6	264.8	358.1	364.0	355.0
77.5°	150.5	216.6	279.8	255.7	261.7
80°	111.3	165.5	177.6	186.6	192.6
82.5°	75.2	111.3	114.3	120.4	120.4
85°	48.2	57.2	60.1	57.2	54.2
87.5°	21.1	24.0	18.0	12.1	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)