

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-LD5-70-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-LD5-70-RDP-UNV-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4171.7 lumens
Efficiency: N/A
Efficacy: 65.0 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

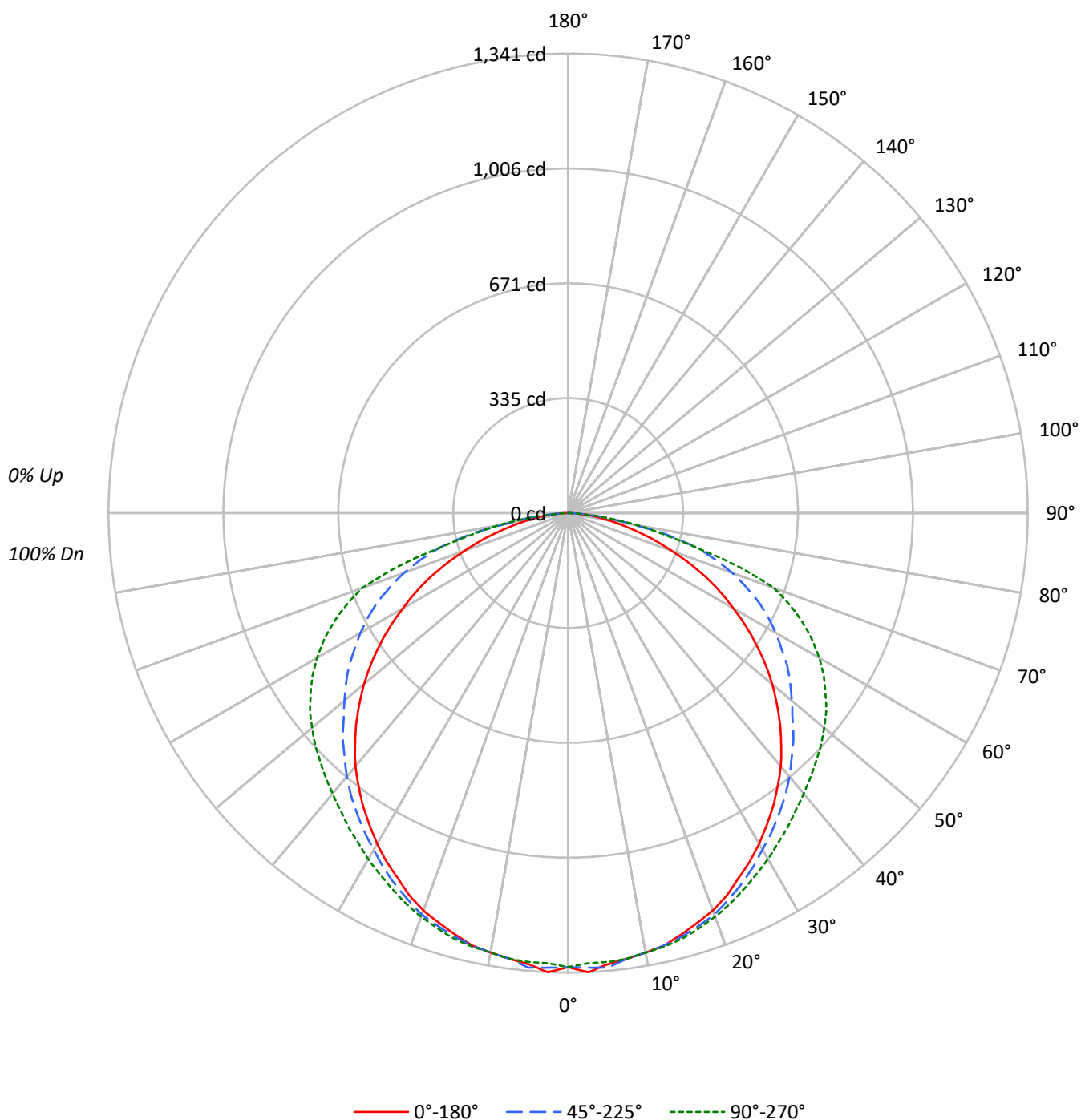
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L830-CD1-U

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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	83		
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70	68		
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58	56		
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50	47		
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43	41		
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37	35		
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33	31		
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29	28		
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27	25		
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1783	1783	1783
5°	1781	1790	1769
10°	1772	1763	1764
15°	1762	1757	1768
20°	1751	1752	1763
25°	1726	1732	1758
30°	1707	1709	1761
35°	1684	1698	1774
40°	1661	1689	1802
45°	1624	1680	1855
50°	1580	1678	1927
55°	1519	1703	2007
60°	1437	1725	2094
65°	1341	1750	2171
70°	1181	1746	2207
75°	1001	1673	1675
80°	814	1138	1252
85°	623	623	573



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.8	3.0
10°-20°	361.3	8.7
20°-30°	550.6	13.2
30°-40°	673.7	16.1
40°-50°	724.9	17.4
50°-60°	702.1	16.8
60°-70°	594.8	14.3
70°-80°	359.5	8.6
80°-90°	79.0	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°	1037.7	24.9
0°-40°	1711.4	41.0
0°-60°	3138.3	75.2
0°-90°	4171.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4171.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1325	1325	1325	1325	1325	
5°	1322	1322	1332	1325	1315	126
15°	1273	1276	1280	1283	1286	360
25°	1176	1182	1196	1205	1212	543
35°	1043	1050	1072	1102	1118	652
45°	875	891	930	988	1024	674
55°	671	700	781	871	917	599
65°	444	492	612	710	755	437
75°	211	285	386	392	382	226
85°	52	62	65	62	58	59
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-70-RDP-UNV-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1325.1	1325.1	1325.1	1325.1	1325.1
2.5°	1341.2	1338.0	1328.3	1321.7	1315.3
5°	1321.7	1321.7	1331.5	1325.1	1315.3
7.5°	1312.0	1312.0	1312.0	1328.3	1312.0
10°	1302.4	1305.6	1302.4	1315.3	1302.4
12.5°	1292.7	1292.7	1292.7	1295.9	1295.9
15°	1273.2	1276.4	1279.6	1282.9	1286.1
17.5°	1253.7	1256.9	1263.5	1266.7	1270.0
20°	1234.3	1237.6	1247.3	1247.3	1253.7
22.5°	1208.4	1208.4	1221.3	1224.6	1234.3
25°	1176.0	1182.5	1195.5	1205.2	1211.6
27.5°	1146.8	1153.3	1166.3	1179.2	1188.9
30°	1114.4	1120.9	1133.9	1153.3	1166.3
32.5°	1078.8	1085.3	1104.8	1127.4	1140.4
35°	1043.2	1049.7	1072.4	1101.5	1117.7
37.5°	1004.3	1014.0	1040.0	1072.4	1091.7
40°	965.4	975.2	1004.3	1040.0	1069.1
42.5°	920.1	933.0	965.4	1014.0	1046.4
45°	874.7	890.9	929.8	988.1	1023.7
47.5°	826.1	842.3	887.7	962.2	1001.0
50°	777.5	797.0	852.1	933.0	975.2
52.5°	725.7	745.1	816.4	903.8	949.2
55°	670.6	699.8	780.8	871.4	916.8
57.5°	615.5	647.9	738.6	835.8	884.4
60°	557.2	596.1	699.8	797.0	845.6
62.5°	502.2	544.3	657.7	754.9	803.4
65°	443.8	492.4	612.3	709.5	754.9
67.5°	382.3	443.8	560.5	654.5	699.8
70°	320.7	392.0	508.6	596.1	638.2
72.5°	265.6	340.2	450.3	524.8	524.8
75°	210.6	285.1	385.5	392.0	382.3
77.5°	162.0	233.2	301.2	275.4	281.9
80°	119.9	178.2	191.1	200.8	207.4
82.5°	81.0	119.9	123.1	129.6	129.6
85°	51.9	61.6	64.8	61.6	58.3
87.5°	22.7	25.9	19.5	12.9	9.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)