

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-RDP-UNV-L840-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-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4096.5 lumens
Efficiency: N/A
Efficacy: 78.5 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

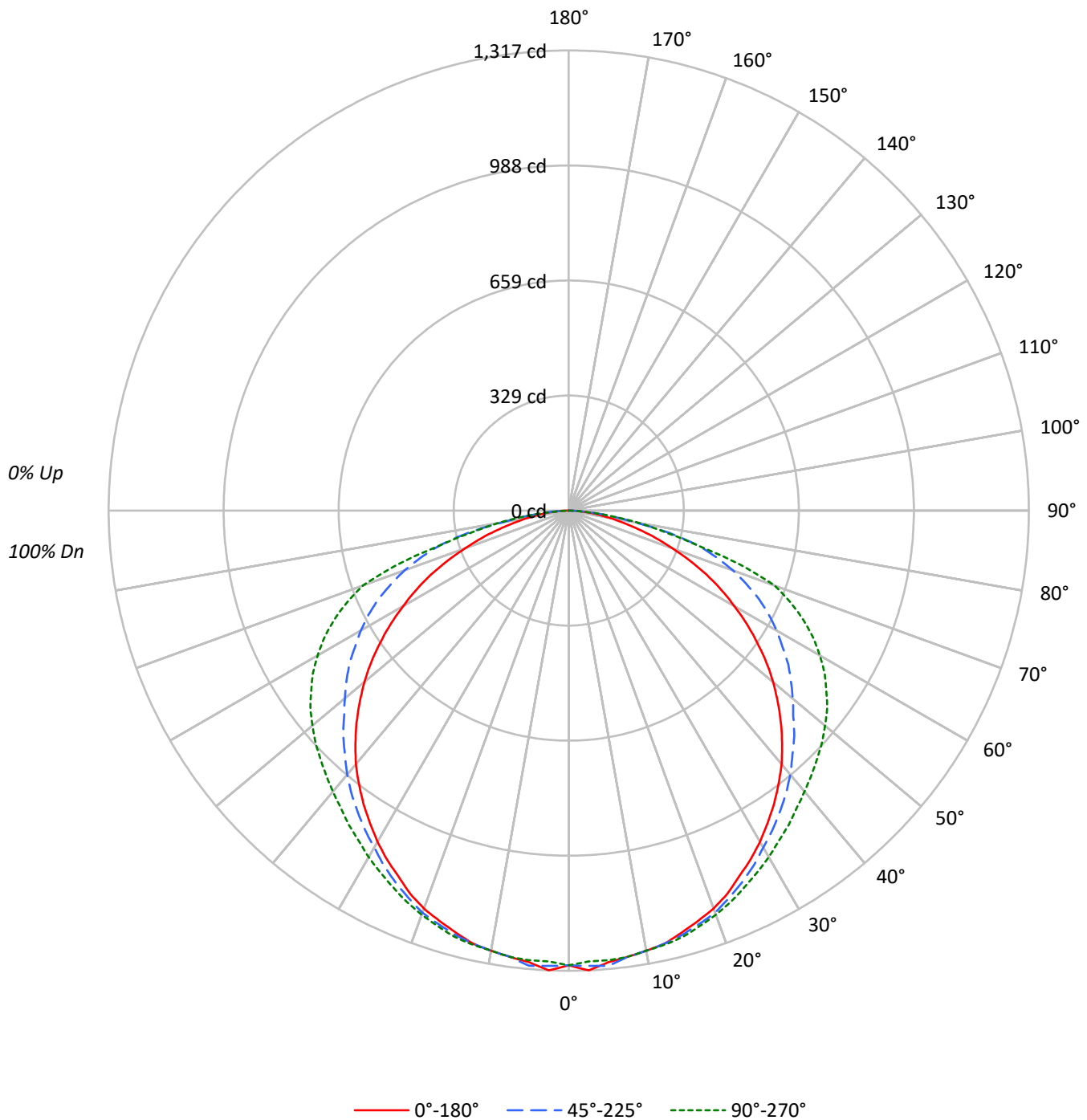
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L840-CD1-U

Luminous Intensity Polar Plot



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L840-CD1-U

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	0			
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°	1751	1751	1751
5°	1749	1758	1737
10°	1740	1731	1732
15°	1730	1726	1736
20°	1720	1721	1731
25°	1695	1701	1726
30°	1676	1679	1729
35°	1654	1668	1742
40°	1631	1658	1770
45°	1595	1650	1822
50°	1552	1647	1892
55°	1491	1672	1971
60°	1411	1694	2056
65°	1317	1719	2132
70°	1160	1715	2168
75°	983	1643	1645
80°	799	1118	1229
85°	611	611	563



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.5	3.0
10°-20°	354.8	8.7
20°-30°	540.7	13.2
30°-40°	661.5	16.1
40°-50°	711.8	17.4
50°-60°	689.5	16.8
60°-70°	584.1	14.3
70°-80°	353.1	8.6
80°-90°	77.6	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°	1019.0	24.9
0°-40°	1680.5	41.0
0°-60°	3081.8	75.2
0°-90°	4096.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4096.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1301	1301	1301	1301	1301	
5°	1298	1298	1308	1301	1292	123
15°	1250	1253	1257	1260	1263	353
25°	1155	1161	1174	1184	1190	533
35°	1024	1031	1053	1082	1098	641
45°	859	875	913	970	1005	662
55°	658	687	767	856	900	588
65°	436	484	601	697	741	429
75°	207	280	379	385	375	222
85°	51	60	64	60	57	58
90°	0	0	0	0	0	



TEST NUMBER: P#

CATALOG NUMBER: 24CZ-LD5-60-RDP-UNV-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1301.2	1301.2	1301.2	1301.2	1301.2
2.5°	1317.1	1313.9	1304.4	1298.0	1291.6
5°	1298.0	1298.0	1307.5	1301.2	1291.6
7.5°	1288.4	1288.4	1288.4	1304.4	1288.4
10°	1278.9	1282.1	1278.9	1291.6	1278.9
12.5°	1269.4	1269.4	1269.4	1272.5	1272.5
15°	1250.3	1253.4	1256.6	1259.8	1263.0
17.5°	1231.2	1234.4	1240.7	1243.9	1247.1
20°	1212.1	1215.3	1224.8	1224.8	1231.2
22.5°	1186.6	1186.6	1199.4	1202.5	1212.1
25°	1154.8	1161.2	1173.9	1183.5	1189.8
27.5°	1126.2	1132.6	1145.3	1158.0	1167.6
30°	1094.4	1100.7	1113.5	1132.6	1145.3
32.5°	1059.4	1065.8	1084.8	1107.1	1119.8
35°	1024.4	1030.8	1053.0	1081.7	1097.6
37.5°	986.2	995.8	1021.2	1053.0	1072.1
40°	948.0	957.6	986.2	1021.2	1049.8
42.5°	903.5	916.2	948.0	995.8	1027.6
45°	859.0	874.9	913.0	970.3	1005.3
47.5°	811.2	827.1	871.7	944.9	983.0
50°	763.5	782.6	836.7	916.2	957.6
52.5°	712.6	731.7	801.7	887.6	932.1
55°	658.5	687.2	766.7	855.8	900.3
57.5°	604.5	636.3	725.3	820.8	868.5
60°	547.2	585.4	687.2	782.6	830.3
62.5°	493.1	534.5	645.8	741.3	789.0
65°	435.8	483.6	601.3	696.7	741.3
67.5°	375.4	435.8	550.4	642.6	687.2
70°	315.0	384.9	499.5	585.4	626.7
72.5°	260.9	334.0	442.2	515.4	515.4
75°	206.8	280.0	378.6	384.9	375.4
77.5°	159.1	229.1	295.9	270.4	276.8
80°	117.7	175.0	187.7	197.2	203.6
82.5°	79.5	117.7	120.9	127.3	127.3
85°	50.9	60.4	63.6	60.4	57.3
87.5°	22.3	25.5	19.1	12.7	9.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)