

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-LD5-60SE-RDP-UNV-L835-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-LD5-60SE-RDP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3925.3 lumens
Efficiency: N/A
Efficacy: 65.4 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

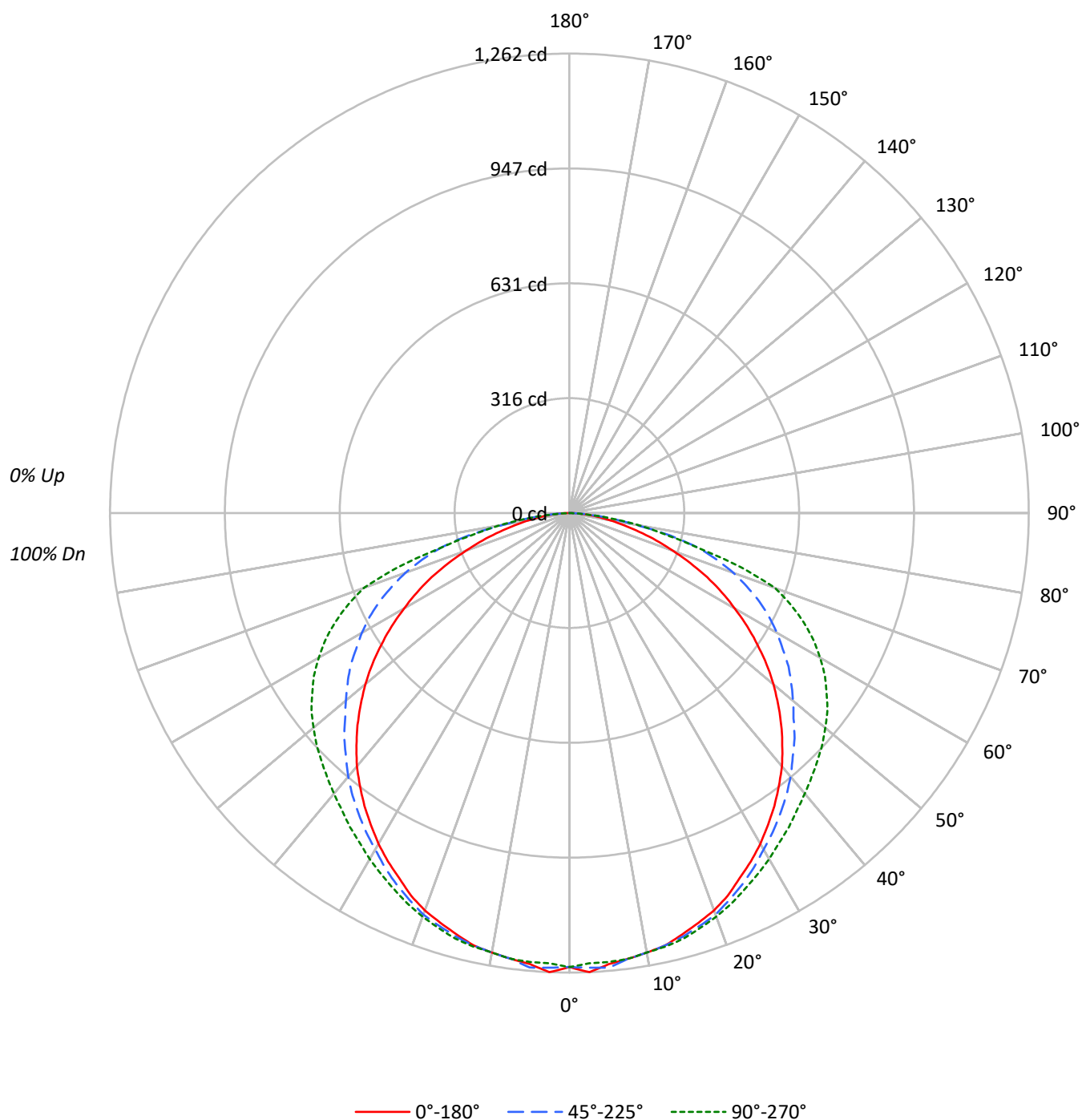
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1678	1678	1678
5°	1676	1684	1664
10°	1667	1659	1660
15°	1658	1654	1663
20°	1648	1649	1659
25°	1624	1630	1654
30°	1606	1608	1657
35°	1585	1598	1669
40°	1563	1589	1696
45°	1528	1581	1746
50°	1487	1578	1813
55°	1429	1602	1889
60°	1352	1623	1970
65°	1262	1647	2042
70°	1111	1643	2077
75°	942	1574	1576
80°	765	1072	1178
85°	586	586	539



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.4	3.0
10°-20°	340.0	8.7
20°-30°	518.1	13.2
30°-40°	633.9	16.1
40°-50°	682.1	17.4
50°-60°	660.7	16.8
60°-70°	559.7	14.3
70°-80°	338.3	8.6
80°-90°	74.3	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°	976.4	24.9
0°-40°	1610.3	41.0
0°-60°	2953.0	75.2
0°-90°	3925.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3925.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1244	1244	1253	1247	1238	118
15°	1198	1201	1204	1207	1210	338
25°	1107	1113	1125	1134	1140	511
35°	982	988	1009	1036	1052	614
45°	823	838	875	930	963	634
55°	631	658	735	820	863	564
65°	418	463	576	668	710	411
75°	198	268	363	369	360	213
85°	49	58	61	58	55	55
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.8	1246.8	1246.8	1246.8	1246.8
2.5°	1262.0	1259.0	1249.8	1243.7	1237.6
5°	1243.7	1243.7	1252.9	1246.8	1237.6
7.5°	1234.6	1234.6	1234.6	1249.8	1234.6
10°	1225.5	1228.5	1225.5	1237.6	1225.5
12.5°	1216.3	1216.3	1216.3	1219.4	1219.4
15°	1198.0	1201.1	1204.1	1207.2	1210.2
17.5°	1179.7	1182.8	1188.9	1191.9	1195.0
20°	1161.4	1164.5	1173.6	1173.6	1179.7
22.5°	1137.1	1137.1	1149.2	1152.3	1161.4
25°	1106.6	1112.7	1124.9	1134.0	1140.1
27.5°	1079.1	1085.2	1097.4	1109.6	1118.8
30°	1048.6	1054.7	1066.9	1085.2	1097.4
32.5°	1015.1	1021.2	1039.5	1060.8	1073.0
35°	981.6	987.7	1009.0	1036.5	1051.7
37.5°	945.0	954.1	978.5	1009.0	1027.3
40°	908.4	917.6	945.0	978.5	1006.0
42.5°	865.7	877.9	908.4	954.1	984.6
45°	823.1	838.3	874.9	929.8	963.3
47.5°	777.3	792.6	835.3	905.4	942.0
50°	731.6	749.9	801.7	877.9	917.6
52.5°	682.8	701.1	768.2	850.5	893.2
55°	631.0	658.5	734.7	820.0	862.7
57.5°	579.2	609.7	695.0	786.5	832.2
60°	524.3	560.9	658.5	749.9	795.6
62.5°	472.5	512.1	618.8	710.3	756.0
65°	417.6	463.4	576.1	667.6	710.3
67.5°	359.7	417.6	527.4	615.8	658.5
70°	301.8	368.9	478.6	560.9	600.5
72.5°	250.0	320.1	423.7	493.8	493.8
75°	198.1	268.3	362.8	368.9	359.7
77.5°	152.4	219.5	283.5	259.1	265.2
80°	112.8	167.7	179.9	189.0	195.1
82.5°	76.2	112.8	115.8	121.9	121.9
85°	48.8	57.9	61.0	57.9	54.9
87.5°	21.3	24.4	18.3	12.2	9.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)