

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-LD5-75-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-LD5-75-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

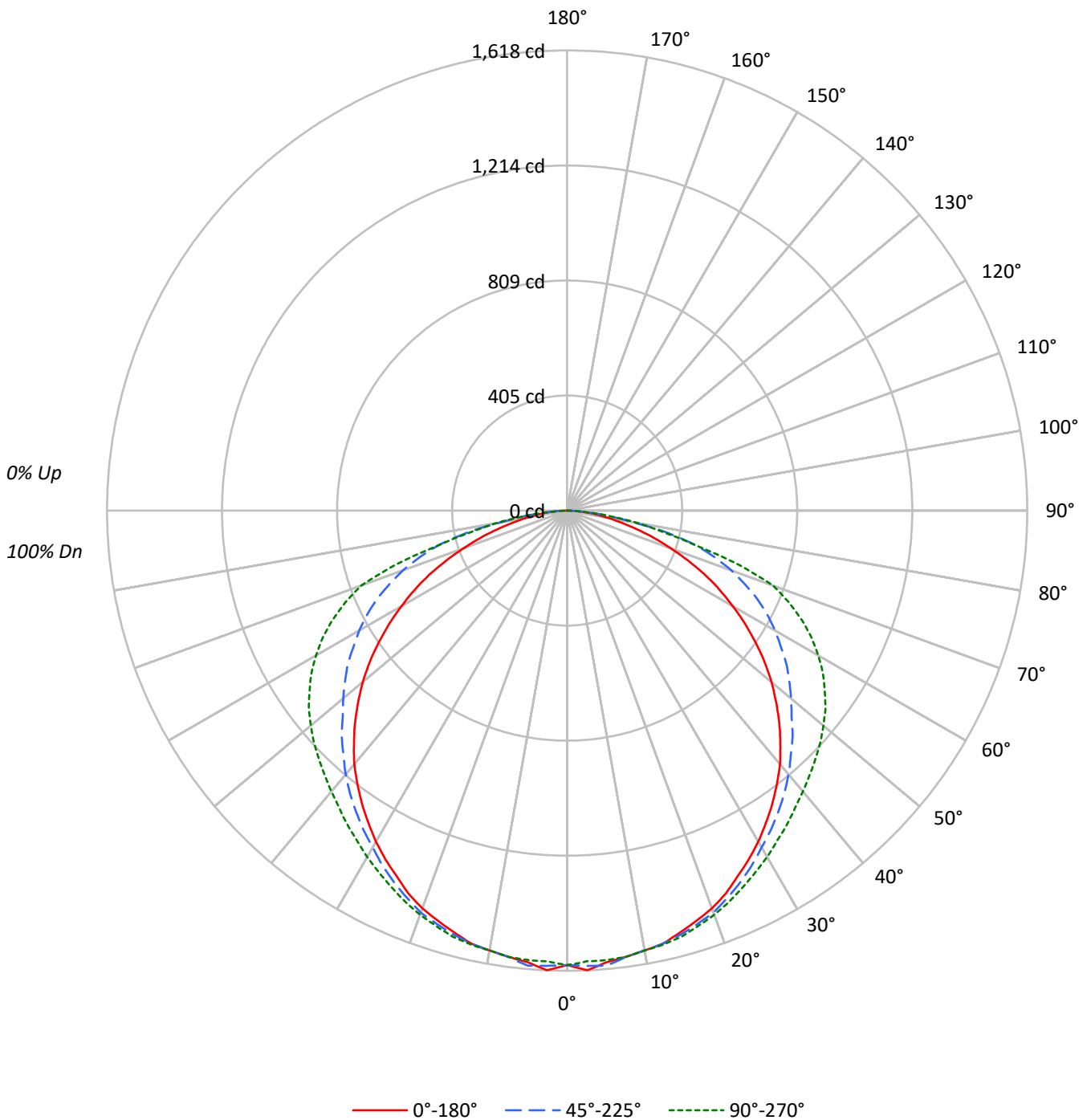
Lumens per Lamp: N/A
Luminaire Lumens: 5031.5 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

Input Watts (W): 69.06
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	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°	2150	2150	2150
5°	2148	2159	2133
10°	2137	2126	2127
15°	2125	2120	2132
20°	2112	2113	2127
25°	2081	2089	2120
30°	2059	2062	2124
35°	2031	2048	2139
40°	2003	2037	2174
45°	1959	2026	2238
50°	1906	2023	2323
55°	1832	2053	2421
60°	1734	2080	2526
65°	1618	2111	2618
70°	1424	2107	2663
75°	1208	2018	2020
80°	981	1373	1510
85°	750	751	691



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.7	3.0
10°-20°	435.8	8.7
20°-30°	664.1	13.2
30°-40°	812.5	16.1
40°-50°	874.2	17.4
50°-60°	846.9	16.8
60°-70°	717.4	14.3
70°-80°	433.6	8.6
80°-90°	95.3	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°	1251.6	24.9
0°-40°	2064.1	41.0
0°-60°	3785.2	75.2
0°-90°	5031.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5031.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1598	1598	1598	1598	1598	
5°	1594	1594	1606	1598	1586	152
15°	1536	1540	1543	1547	1551	434
25°	1418	1426	1442	1454	1461	655
35°	1258	1266	1293	1328	1348	787
45°	1055	1074	1121	1192	1235	813
55°	809	844	942	1051	1106	723
65°	535	594	738	856	910	527
75°	254	344	465	473	461	273
85°	62	74	78	74	70	71
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1598.1	1598.1	1598.1	1598.1	1598.1
2.5°	1617.7	1613.8	1602.0	1594.2	1586.4
5°	1594.2	1594.2	1606.0	1598.1	1586.4
7.5°	1582.5	1582.5	1582.5	1602.0	1582.5
10°	1570.8	1574.7	1570.8	1586.4	1570.8
12.5°	1559.1	1559.1	1559.1	1563.0	1563.0
15°	1535.6	1539.5	1543.4	1547.3	1551.3
17.5°	1512.2	1516.1	1523.9	1527.8	1531.7
20°	1488.7	1492.6	1504.4	1504.4	1512.2
22.5°	1457.5	1457.5	1473.1	1477.0	1488.7
25°	1418.4	1426.2	1441.8	1453.6	1461.4
27.5°	1383.2	1391.0	1406.7	1422.3	1434.0
30°	1344.2	1352.0	1367.6	1391.0	1406.7
32.5°	1301.2	1309.0	1332.4	1359.8	1375.4
35°	1258.2	1266.0	1293.4	1328.5	1348.1
37.5°	1211.3	1223.0	1254.3	1293.4	1316.8
40°	1164.4	1176.1	1211.3	1254.3	1289.5
42.5°	1109.7	1125.3	1164.4	1223.0	1262.1
45°	1055.0	1074.5	1121.4	1191.8	1234.7
47.5°	996.4	1015.9	1070.6	1160.5	1207.4
50°	937.8	961.2	1027.7	1125.3	1176.1
52.5°	875.3	898.7	984.7	1090.2	1144.9
55°	808.8	844.0	941.7	1051.1	1105.8
57.5°	742.4	781.5	890.9	1008.1	1066.7
60°	672.1	719.0	844.0	961.2	1019.8
62.5°	605.7	656.4	793.2	910.4	969.0
65°	535.3	593.9	738.5	855.7	910.4
67.5°	461.1	535.3	676.0	789.3	844.0
70°	386.8	472.8	613.5	719.0	769.8
72.5°	320.4	410.3	543.1	633.0	633.0
75°	254.0	343.9	465.0	472.8	461.1
77.5°	195.4	281.3	363.4	332.1	339.9
80°	144.6	214.9	230.5	242.3	250.1
82.5°	97.7	144.6	148.5	156.3	156.3
85°	62.5	74.2	78.1	74.2	70.3
87.5°	27.4	31.3	23.4	15.6	11.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)