

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-SQP-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-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5278.4 lumens
Efficiency: N/A
Efficacy: 76.4 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

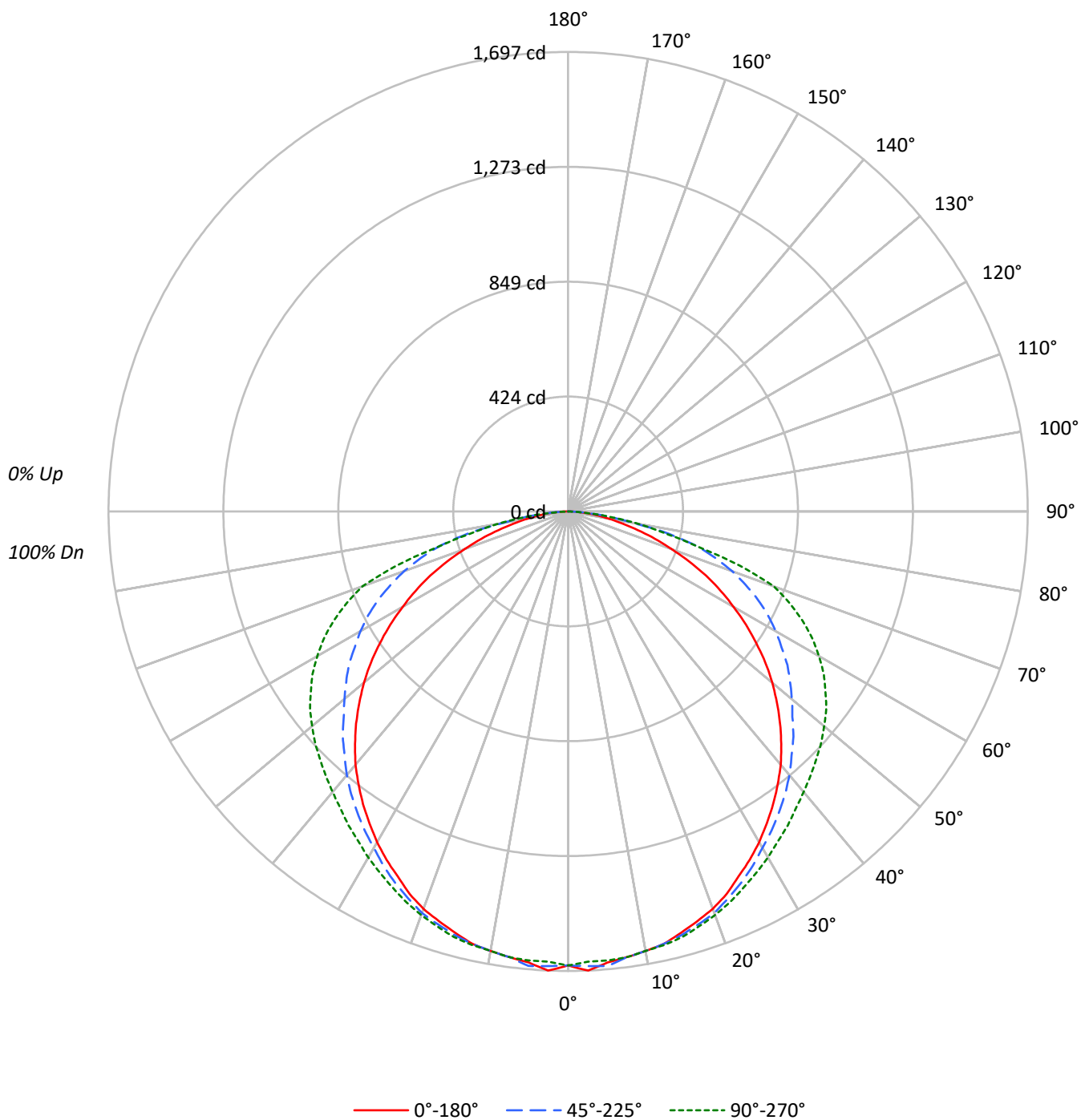
Input Watts (W): 69.06
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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					0
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°	2256	2256	2256
5°	2254	2265	2238
10°	2242	2231	2232
15°	2229	2224	2237
20°	2216	2217	2231
25°	2184	2191	2224
30°	2160	2163	2228
35°	2131	2149	2244
40°	2102	2137	2280
45°	2055	2126	2347
50°	2000	2123	2438
55°	1922	2154	2540
60°	1819	2182	2650
65°	1697	2215	2746
70°	1494	2210	2793
75°	1267	2117	2119
80°	1029	1441	1583
85°	788	788	725



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.2	3.0
10°-20°	457.2	8.7
20°-30°	696.7	13.2
30°-40°	852.4	16.1
40°-50°	917.2	17.4
50°-60°	888.4	16.8
60°-70°	752.6	14.3
70°-80°	454.9	8.6
80°-90°	100.0	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°	1313.0	24.9
0°-40°	2165.4	41.0
0°-60°	3971.0	75.2
0°-90°	5278.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5278.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1677	1677	1677	1677	1677	
5°	1672	1672	1685	1677	1664	159
15°	1611	1615	1619	1623	1627	455
25°	1488	1496	1513	1525	1533	687
35°	1320	1328	1357	1394	1414	826
45°	1107	1127	1176	1250	1295	853
55°	848	885	988	1103	1160	758
65°	562	623	775	898	955	553
75°	266	361	488	496	484	286
85°	66	78	82	78	74	74
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1676.6	1676.6	1676.6	1676.6	1676.6
2.5°	1697.1	1693.0	1680.7	1672.5	1664.3
5°	1672.5	1672.5	1684.8	1676.6	1664.3
7.5°	1660.2	1660.2	1660.2	1680.7	1660.2
10°	1647.9	1652.0	1647.9	1664.3	1647.9
12.5°	1635.6	1635.6	1635.6	1639.7	1639.7
15°	1611.0	1615.1	1619.2	1623.3	1627.4
17.5°	1586.4	1590.5	1598.7	1602.8	1606.9
20°	1561.8	1565.9	1578.2	1578.2	1586.4
22.5°	1529.0	1529.0	1545.4	1549.5	1561.8
25°	1488.0	1496.2	1512.6	1524.9	1533.1
27.5°	1451.1	1459.3	1475.7	1492.1	1504.4
30°	1410.1	1418.3	1434.7	1459.3	1475.7
32.5°	1365.0	1373.2	1397.8	1426.5	1442.9
35°	1319.9	1328.1	1356.8	1393.7	1414.2
37.5°	1270.7	1283.0	1315.8	1356.8	1381.4
40°	1221.6	1233.9	1270.7	1315.8	1352.7
42.5°	1164.2	1180.6	1221.6	1283.0	1324.0
45°	1106.8	1127.3	1176.5	1250.2	1295.3
47.5°	1045.3	1065.8	1123.2	1217.5	1266.6
50°	983.8	1008.4	1078.1	1180.6	1233.9
52.5°	918.2	942.8	1033.0	1143.7	1201.1
55°	848.5	885.4	987.9	1102.7	1160.1
57.5°	778.8	819.8	934.6	1057.6	1119.1
60°	705.1	754.2	885.4	1008.4	1069.9
62.5°	635.4	688.7	832.1	955.1	1016.6
65°	561.6	623.1	774.7	897.7	955.1
67.5°	483.7	561.6	709.2	828.0	885.4
70°	405.8	496.0	643.6	754.2	807.5
72.5°	336.1	430.4	569.8	664.1	664.1
75°	266.4	360.7	487.8	496.0	483.7
77.5°	205.0	295.1	381.2	348.4	356.6
80°	151.7	225.5	241.9	254.1	262.3
82.5°	102.5	151.7	155.8	164.0	164.0
85°	65.6	77.9	82.0	77.9	73.8
87.5°	28.7	32.8	24.6	16.4	12.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)