

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-SQP-UNV-L850-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-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

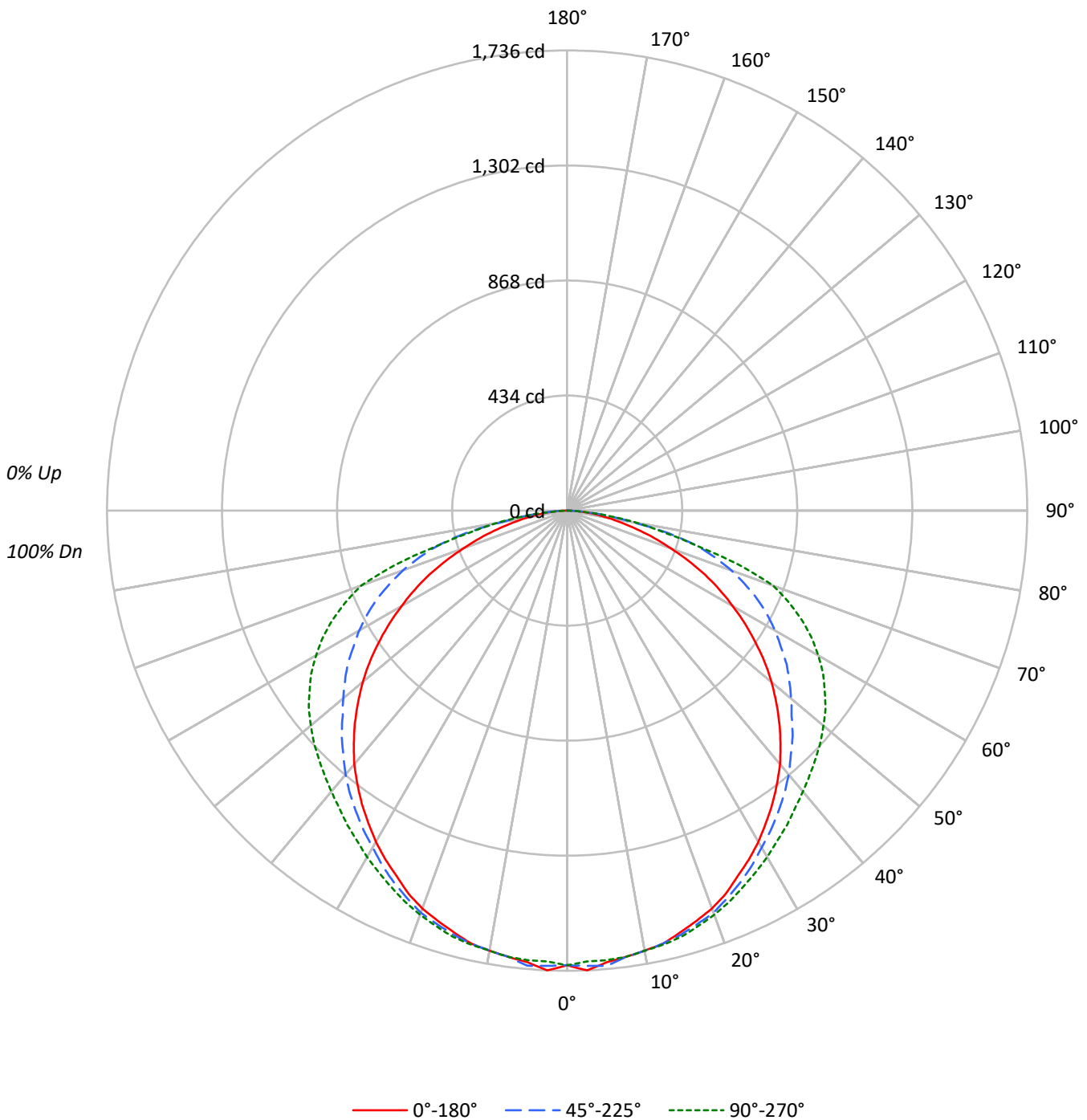
Lumens per Lamp: N/A
Luminaire Lumens: 5399.5 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2308	2308	2308
5°	2306	2317	2289
10°	2293	2282	2283
15°	2280	2275	2288
20°	2267	2268	2282
25°	2234	2242	2275
30°	2209	2212	2280
35°	2180	2198	2296
40°	2150	2186	2333
45°	2102	2175	2401
50°	2046	2171	2493
55°	1966	2204	2598
60°	1860	2232	2710
65°	1736	2265	2809
70°	1528	2260	2857
75°	1296	2165	2168
80°	1053	1474	1620
85°	806	806	742



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.8	3.0
10°-20°	467.6	8.7
20°-30°	712.6	13.2
30°-40°	871.9	16.1
40°-50°	938.2	17.4
50°-60°	908.8	16.8
60°-70°	769.8	14.3
70°-80°	465.4	8.6
80°-90°	102.3	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°	1343.1	24.9
0°-40°	2215.0	41.0
0°-60°	4062.0	75.2
0°-90°	5399.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5399.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1715	1715	1715	1715	1715	
5°	1711	1711	1723	1715	1702	163
15°	1648	1652	1656	1660	1665	465
25°	1522	1530	1547	1560	1568	703
35°	1350	1359	1388	1426	1447	845
45°	1132	1153	1203	1279	1325	873
55°	868	906	1011	1128	1187	775
65°	574	637	792	918	977	566
75°	273	369	499	507	495	293
85°	67	80	84	80	76	76
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1715.0	1715.0	1715.0	1715.0	1715.0
2.5°	1736.0	1731.8	1719.2	1710.8	1702.4
5°	1710.8	1710.8	1723.4	1715.0	1702.4
7.5°	1698.2	1698.2	1698.2	1719.2	1698.2
10°	1685.7	1689.9	1685.7	1702.4	1685.7
12.5°	1673.1	1673.1	1673.1	1677.3	1677.3
15°	1647.9	1652.1	1656.3	1660.5	1664.7
17.5°	1622.8	1627.0	1635.3	1639.5	1643.7
20°	1597.6	1601.8	1614.4	1614.4	1622.8
22.5°	1564.1	1564.1	1580.8	1585.0	1597.6
25°	1522.1	1530.5	1547.3	1559.9	1568.3
27.5°	1484.4	1492.8	1509.6	1526.3	1538.9
30°	1442.5	1450.8	1467.6	1492.8	1509.6
32.5°	1396.3	1404.7	1429.9	1459.2	1476.0
35°	1350.2	1358.6	1387.9	1425.7	1446.7
37.5°	1299.9	1312.5	1346.0	1387.9	1413.1
40°	1249.6	1262.2	1299.9	1346.0	1383.8
42.5°	1190.9	1207.6	1249.6	1312.5	1354.4
45°	1132.2	1153.1	1203.4	1278.9	1325.1
47.5°	1069.3	1090.2	1148.9	1245.4	1295.7
50°	1006.4	1031.5	1102.8	1207.6	1262.2
52.5°	939.3	964.4	1056.7	1169.9	1228.6
55°	868.0	905.7	1010.6	1128.0	1186.7
57.5°	796.7	838.6	956.0	1081.8	1144.7
60°	721.2	771.5	905.7	1031.5	1094.4
62.5°	649.9	704.5	851.2	977.0	1039.9
65°	574.5	637.4	792.5	918.3	977.0
67.5°	494.8	574.5	725.4	847.0	905.7
70°	415.1	507.4	658.3	771.5	826.1
72.5°	343.8	440.3	582.9	679.3	679.3
75°	272.6	369.0	499.0	507.4	494.8
77.5°	209.7	301.9	390.0	356.4	364.8
80°	155.1	230.6	247.4	260.0	268.4
82.5°	104.8	155.1	159.3	167.7	167.7
85°	67.1	79.7	83.9	79.7	75.5
87.5°	29.4	33.5	25.2	16.8	12.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)