

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-RDP-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-RDP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

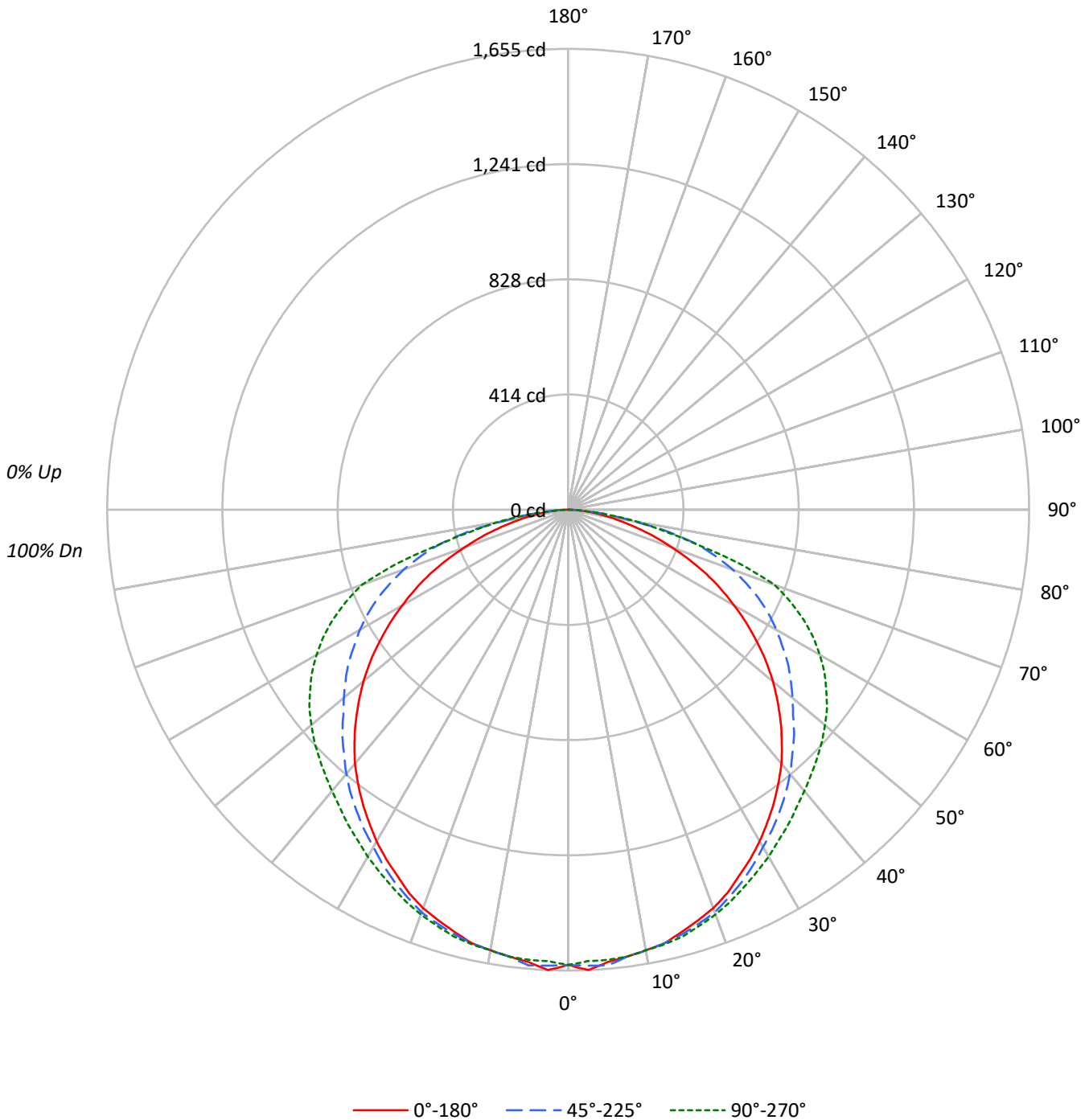
Lumens per Lamp: N/A
Luminaire Lumens: 5146.9 lumens
Efficiency: N/A
Efficacy: 80.1 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.31 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 2' x L: 4' x H: 0.1')
CIE Type: Direct

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	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°	2200	2200	2200
5°	2198	2209	2182
10°	2186	2175	2176
15°	2173	2168	2181
20°	2161	2162	2175
25°	2129	2137	2169
30°	2106	2109	2173
35°	2078	2095	2188
40°	2049	2084	2223
45°	2003	2073	2289
50°	1950	2070	2377
55°	1874	2101	2477
60°	1773	2128	2583
65°	1655	2159	2678
70°	1457	2155	2723
75°	1235	2064	2067
80°	1004	1405	1544
85°	768	768	706



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.2	3.0
10°-20°	445.8	8.7
20°-30°	679.3	13.2
30°-40°	831.2	16.1
40°-50°	894.3	17.4
50°-60°	866.3	16.8
60°-70°	733.8	14.3
70°-80°	443.6	8.6
80°-90°	97.5	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°	1280.3	24.9
0°-40°	2111.4	41.0
0°-60°	3872.0	75.2
0°-90°	5146.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	5146.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1635	1635	1635	1635	1635	
5°	1631	1631	1643	1635	1623	155
15°	1571	1575	1579	1583	1587	444
25°	1451	1459	1475	1487	1495	670
35°	1287	1295	1323	1359	1379	805
45°	1079	1099	1147	1219	1263	832
55°	827	863	963	1075	1131	739
65°	548	608	755	875	931	539
75°	260	352	476	484	472	279
85°	64	76	80	76	72	72
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1634.8	1634.8	1634.8	1634.8	1634.8
2.5°	1654.8	1650.8	1638.8	1630.8	1622.8
5°	1630.8	1630.8	1642.8	1634.8	1622.8
7.5°	1618.8	1618.8	1618.8	1638.8	1618.8
10°	1606.8	1610.8	1606.8	1622.8	1606.8
12.5°	1594.8	1594.8	1594.8	1598.8	1598.8
15°	1570.8	1574.8	1578.8	1582.8	1586.8
17.5°	1546.9	1550.9	1558.9	1562.9	1566.8
20°	1522.9	1526.9	1538.9	1538.9	1546.9
22.5°	1490.9	1490.9	1506.9	1510.9	1522.9
25°	1450.9	1458.9	1474.9	1486.9	1494.9
27.5°	1415.0	1423.0	1438.9	1454.9	1466.9
30°	1375.0	1383.0	1399.0	1423.0	1438.9
32.5°	1331.0	1339.0	1363.0	1391.0	1407.0
35°	1287.1	1295.0	1323.0	1359.0	1379.0
37.5°	1239.1	1251.1	1283.1	1323.0	1347.0
40°	1191.1	1203.1	1239.1	1283.1	1319.0
42.5°	1135.2	1151.2	1191.1	1251.1	1291.1
45°	1079.2	1099.2	1147.2	1219.1	1263.1
47.5°	1019.3	1039.2	1095.2	1187.1	1235.1
50°	959.3	983.3	1051.2	1151.2	1203.1
52.5°	895.3	919.3	1007.3	1115.2	1171.1
55°	827.4	863.4	963.3	1075.2	1131.2
57.5°	759.4	799.4	911.3	1031.2	1091.2
60°	687.5	735.5	863.4	983.3	1043.2
62.5°	619.5	671.5	811.4	931.3	991.3
65°	547.6	607.6	755.4	875.4	931.3
67.5°	471.7	547.6	691.5	807.4	863.4
70°	395.7	483.6	627.5	735.5	787.4
72.5°	327.8	419.7	555.6	647.5	647.5
75°	259.8	351.7	475.7	483.6	471.7
77.5°	199.9	287.8	371.7	339.8	347.7
80°	147.9	219.8	235.8	247.8	255.8
82.5°	99.9	147.9	151.9	159.9	159.9
85°	64.0	75.9	79.9	75.9	71.9
87.5°	28.0	32.0	24.0	16.0	12.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)