

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-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-LD5-70-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4991.6 lumens
Efficiency: N/A
Efficacy: 77.7 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

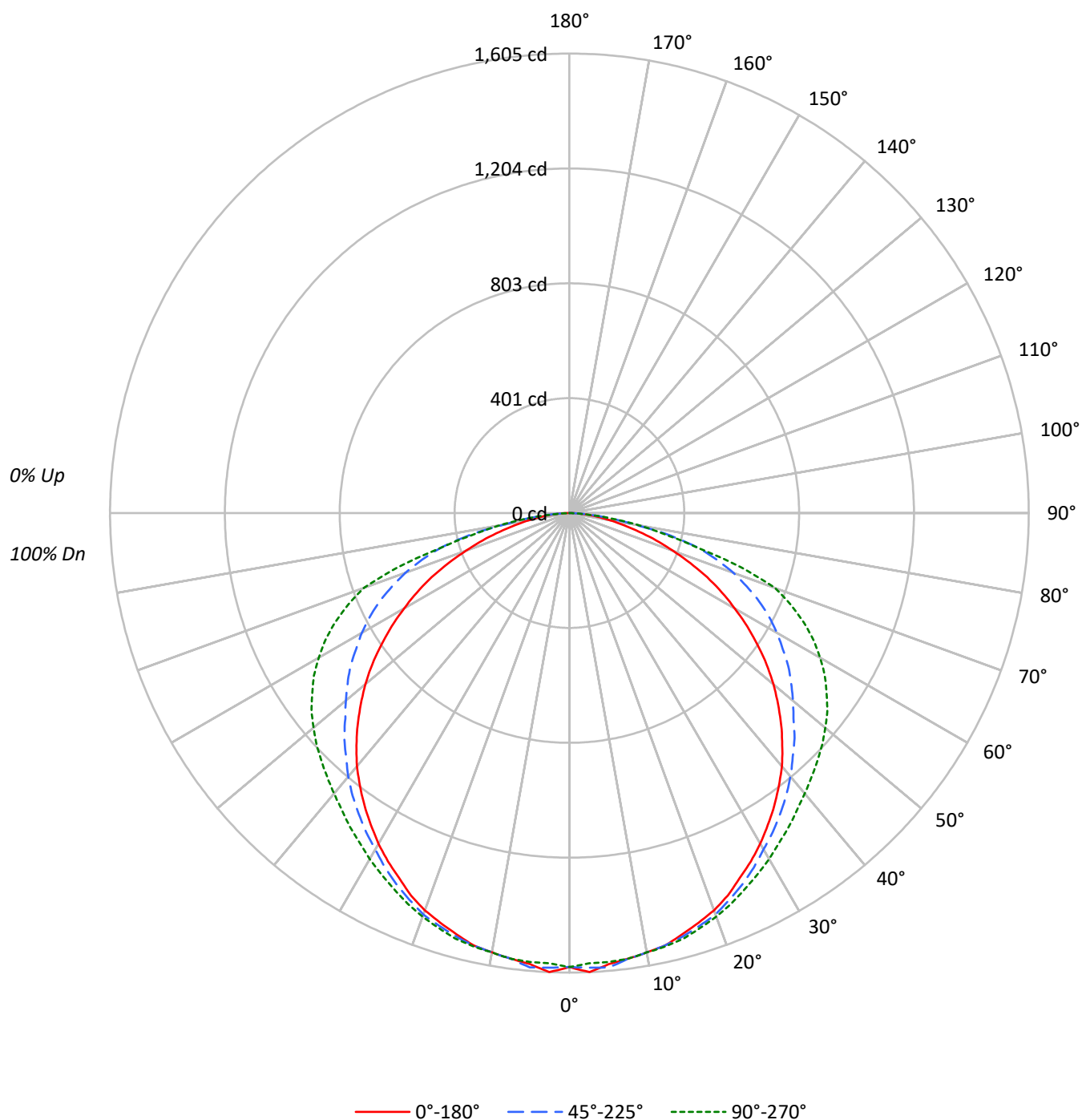
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2133	2133	2133
5°	2131	2142	2116
10°	2120	2109	2110
15°	2108	2103	2115
20°	2096	2096	2110
25°	2065	2072	2103
30°	2042	2045	2107
35°	2015	2032	2122
40°	1987	2021	2156
45°	1943	2010	2220
50°	1891	2007	2305
55°	1817	2037	2402
60°	1720	2064	2506
65°	1605	2094	2597
70°	1413	2090	2641
75°	1198	2002	2004
80°	973	1362	1498
85°	744	745	686



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.5	3.0
10°-20°	432.3	8.7
20°-30°	658.8	13.2
30°-40°	806.1	16.1
40°-50°	867.3	17.4
50°-60°	840.1	16.8
60°-70°	711.7	14.3
70°-80°	430.2	8.6
80°-90°	94.5	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°	1241.6	24.9
0°-40°	2047.7	41.0
0°-60°	3755.2	75.2
0°-90°	4991.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4991.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1586	1586	1586	1586	1586	
5°	1582	1582	1593	1586	1574	150
15°	1523	1527	1531	1535	1539	430
25°	1407	1415	1430	1442	1450	650
35°	1248	1256	1283	1318	1337	781
45°	1047	1066	1112	1182	1225	807
55°	802	837	934	1043	1097	717
65°	531	589	733	849	903	523
75°	252	341	461	469	457	271
85°	62	74	78	74	70	70
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1585.5	1585.5	1585.5	1585.5	1585.5
2.5°	1604.9	1601.0	1589.3	1581.6	1573.8
5°	1581.6	1581.6	1593.2	1585.5	1573.8
7.5°	1570.0	1570.0	1570.0	1589.3	1570.0
10°	1558.3	1562.2	1558.3	1573.8	1558.3
12.5°	1546.7	1546.7	1546.7	1550.6	1550.6
15°	1523.4	1527.3	1531.2	1535.1	1539.0
17.5°	1500.2	1504.1	1511.8	1515.7	1519.6
20°	1476.9	1480.8	1492.4	1492.4	1500.2
22.5°	1445.9	1445.9	1461.4	1465.3	1476.9
25°	1407.2	1414.9	1430.4	1442.0	1449.8
27.5°	1372.3	1380.0	1395.5	1411.0	1422.7
30°	1333.5	1341.3	1356.8	1380.0	1395.5
32.5°	1290.9	1298.6	1321.9	1349.0	1364.5
35°	1248.2	1256.0	1283.1	1318.0	1337.4
37.5°	1201.7	1213.3	1244.3	1283.1	1306.4
40°	1155.2	1166.8	1201.7	1244.3	1279.2
42.5°	1100.9	1116.4	1155.2	1213.3	1252.1
45°	1046.6	1066.0	1112.5	1182.3	1225.0
47.5°	988.5	1007.9	1062.1	1151.3	1197.8
50°	930.4	953.6	1019.5	1116.4	1166.8
52.5°	868.3	891.6	976.9	1081.5	1135.8
55°	802.4	837.3	934.2	1042.8	1097.0
57.5°	736.5	775.3	883.8	1000.1	1058.3
60°	666.8	713.3	837.3	953.6	1011.8
62.5°	600.9	651.2	786.9	903.2	961.4
65°	531.1	589.2	732.7	848.9	903.2
67.5°	457.4	531.1	670.6	783.0	837.3
70°	383.8	469.1	608.6	713.3	763.7
72.5°	317.9	407.0	538.8	628.0	628.0
75°	252.0	341.1	461.3	469.1	457.4
77.5°	193.8	279.1	360.5	329.5	337.3
80°	143.4	213.2	228.7	240.3	248.1
82.5°	96.9	143.4	147.3	155.1	155.1
85°	62.0	73.7	77.5	73.7	69.8
87.5°	27.1	31.0	23.3	15.5	11.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)