

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-L830-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-L830-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4376.4 lumens
Efficiency: N/A
Efficacy: 68.1 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

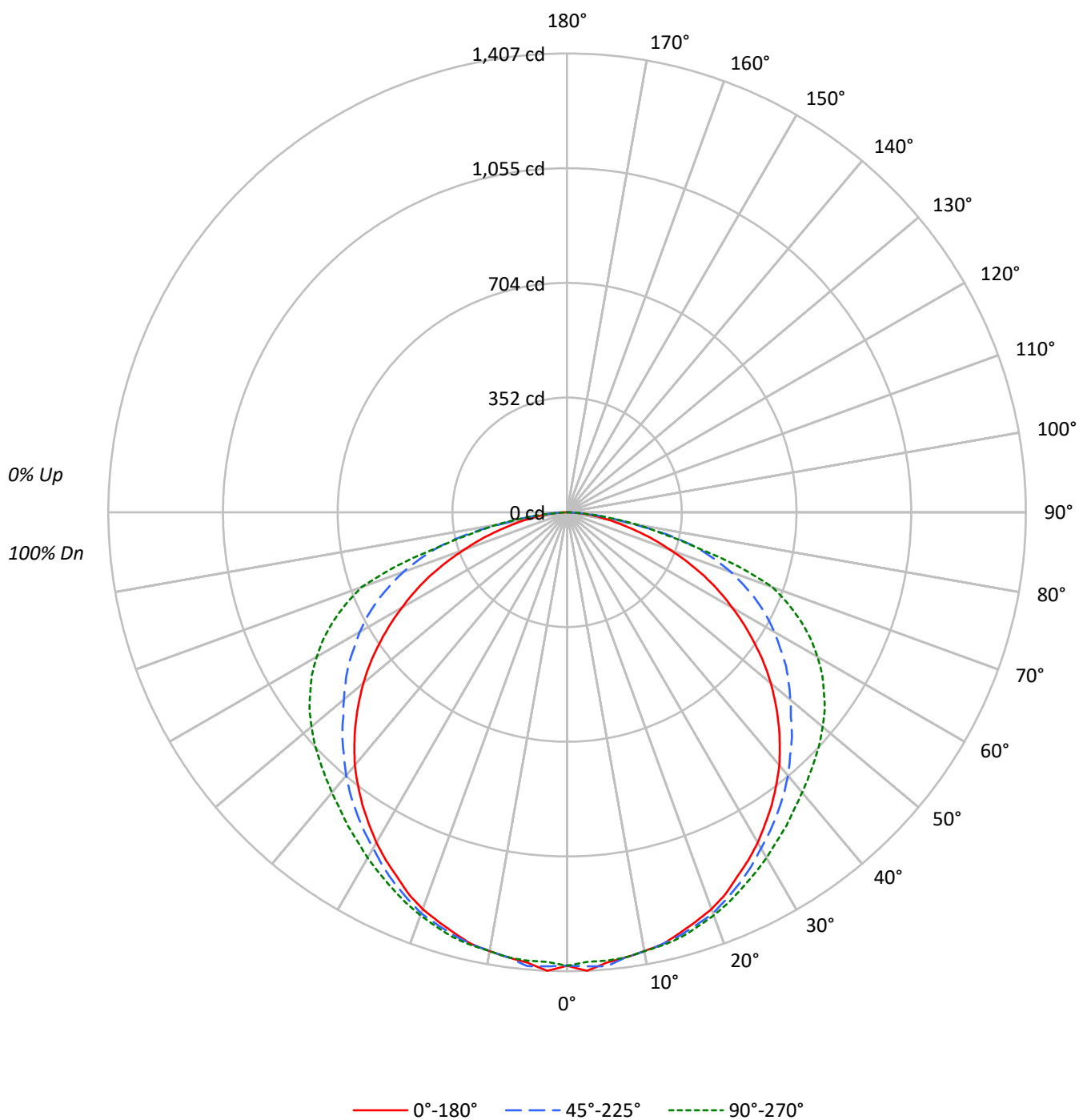
Input Watts (W): 64.22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				0
RW	70	50	30	10	70	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
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85
2	98	89	82	76	95	87	81	75	84	78	73	80	76	71	77	73	70
3	89	78	69	62	86	76	68	62	73	66	61	70	64	59	68	63	58
4	81	68	59	52	79	67	58	52	64	57	51	62	56	50	60	54	50
5	74	61	52	45	72	60	51	44	58	50	44	56	49	43	54	48	43
6	68	55	45	39	66	54	45	39	52	44	38	50	43	38	48	42	37
7	63	49	40	34	62	49	40	34	47	39	34	45	39	33	44	38	33
8	59	45	36	30	57	44	36	30	43	35	30	42	35	30	40	34	29
9	55	41	33	27	54	41	33	27	39	32	27	38	32	27	37	31	27
10	51	38	30	24	50	37	30	24	36	29	24	35	29	24	35	28	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1870	1870	1870
5°	1869	1878	1856
10°	1859	1849	1850
15°	1848	1844	1855
20°	1837	1838	1850
25°	1810	1817	1844
30°	1791	1793	1848
35°	1767	1782	1861
40°	1742	1772	1891
45°	1703	1763	1946
50°	1658	1760	2021
55°	1593	1786	2106
60°	1508	1809	2197
65°	1407	1836	2277
70°	1239	1832	2316
75°	1050	1755	1757
80°	854	1194	1314
85°	652	654	601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	3.0
10°-20°	379.0	8.7
20°-30°	577.6	13.2
30°-40°	706.7	16.1
40°-50°	760.4	17.4
50°-60°	736.6	16.8
60°-70°	624.0	14.3
70°-80°	377.2	8.6
80°-90°	82.9	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°	1088.6	24.9
0°-40°	1795.3	41.0
0°-60°	3292.3	75.2
0°-90°	4376.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4376.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1390	1390	1390	1390	1390	
5°	1387	1387	1397	1390	1380	132
15°	1336	1339	1342	1346	1349	377
25°	1234	1240	1254	1264	1271	570
35°	1094	1101	1125	1156	1172	685
45°	918	935	975	1036	1074	707
55°	704	734	819	914	962	628
65°	466	517	642	744	792	458
75°	221	299	404	411	401	237
85°	54	65	68	65	61	61
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1390.0	1390.0	1390.0	1390.0	1390.0
2.5°	1407.0	1403.6	1393.5	1386.6	1379.9
5°	1386.6	1386.6	1396.9	1390.0	1379.9
7.5°	1376.5	1376.5	1376.5	1393.5	1376.5
10°	1366.3	1369.6	1366.3	1379.9	1366.3
12.5°	1356.0	1356.0	1356.0	1359.4	1359.4
15°	1335.7	1339.0	1342.4	1345.9	1349.3
17.5°	1315.3	1318.7	1325.4	1328.9	1332.3
20°	1294.8	1298.3	1308.4	1308.4	1315.3
22.5°	1267.7	1267.7	1281.3	1284.7	1294.8
25°	1233.7	1240.5	1254.1	1264.3	1271.1
27.5°	1203.1	1209.9	1223.5	1237.1	1247.3
30°	1169.2	1175.9	1189.5	1209.9	1223.5
32.5°	1131.7	1138.6	1158.9	1182.8	1196.3
35°	1094.4	1101.1	1125.0	1155.6	1172.5
37.5°	1053.6	1063.8	1091.0	1125.0	1145.3
40°	1012.8	1023.0	1053.6	1091.0	1121.6
42.5°	965.2	978.8	1012.8	1063.8	1097.7
45°	917.6	934.6	975.4	1036.5	1074.0
47.5°	866.7	883.7	931.2	1009.4	1050.1
50°	815.7	836.1	893.9	978.8	1023.0
52.5°	761.3	781.7	856.4	948.2	995.8
55°	703.5	734.1	819.1	914.2	961.8
57.5°	645.7	679.7	774.9	876.8	927.9
60°	584.5	625.4	734.1	836.1	887.0
62.5°	526.8	570.9	689.9	791.9	842.8
65°	465.6	516.6	642.3	744.3	791.9
67.5°	401.0	465.6	588.0	686.6	734.1
70°	336.5	411.3	533.6	625.4	669.6
72.5°	278.7	356.8	472.4	550.6	550.6
75°	220.9	299.1	404.4	411.3	401.0
77.5°	170.0	244.7	316.1	288.9	295.6
80°	125.8	187.0	200.5	210.7	217.6
82.5°	84.9	125.8	129.1	135.9	135.9
85°	54.3	64.6	68.0	64.6	61.2
87.5°	23.8	27.2	20.4	13.6	10.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)