

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-LD5-60-SQP-UNV-L835-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-LD5-60-SQP-UNV-L835-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4213.3 lumens
Efficiency: N/A
Efficacy: 80.8 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

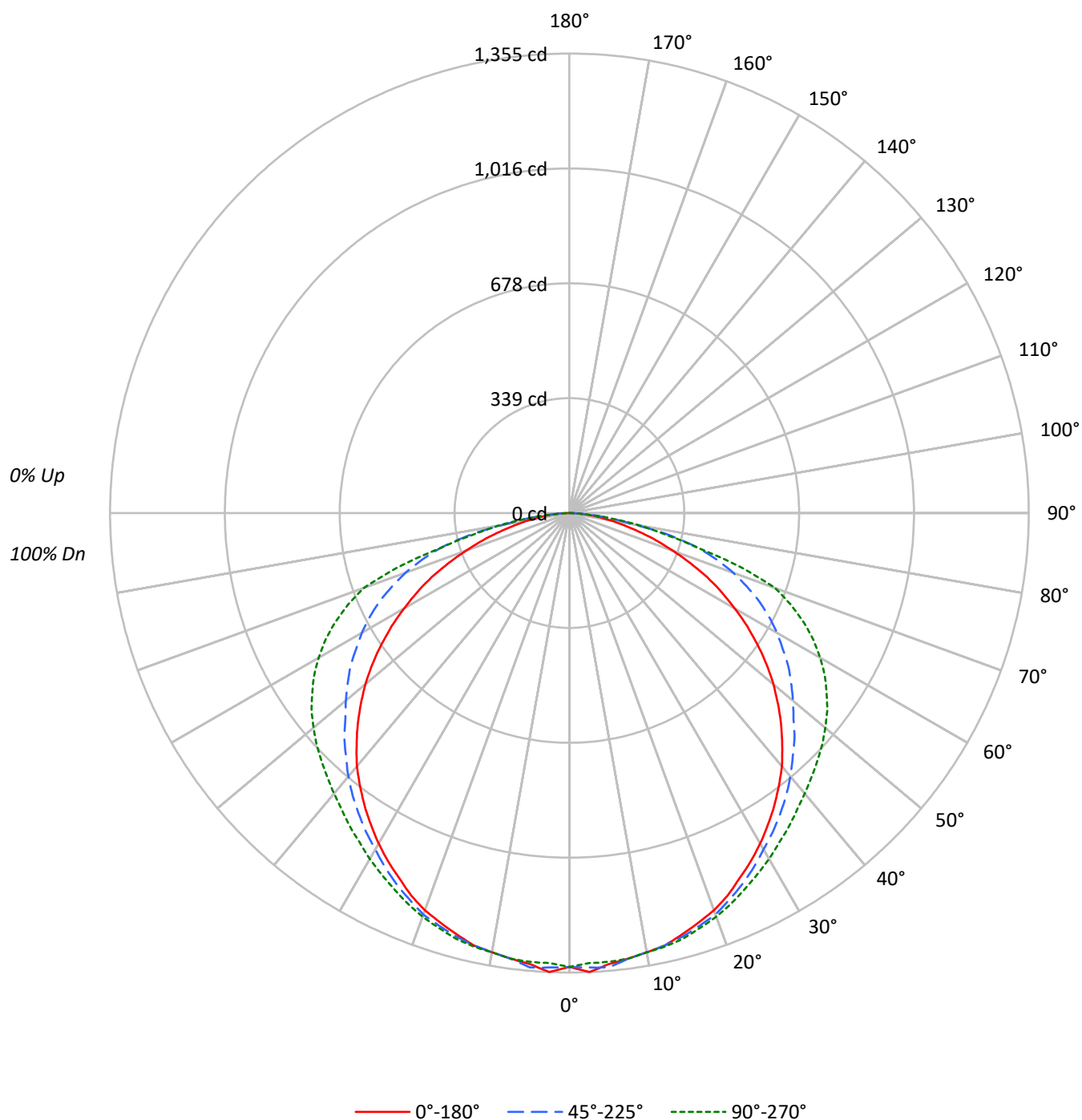
Input Watts (W): 52.17
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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		0
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		100
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		83
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		68
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		56
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		47
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		41
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		35
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		31
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		28
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		25
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1801	1801	1801
5°	1799	1808	1786
10°	1789	1780	1781
15°	1779	1775	1786
20°	1769	1770	1781
25°	1743	1749	1775
30°	1724	1726	1779
35°	1701	1715	1791
40°	1677	1706	1820
45°	1640	1697	1874
50°	1596	1694	1946
55°	1534	1720	2027
60°	1452	1742	2115
65°	1355	1768	2192
70°	1192	1764	2230
75°	1011	1690	1692
80°	822	1150	1264
85°	629	629	579



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.1	3.0
10°-20°	364.9	8.7
20°-30°	556.1	13.2
30°-40°	680.4	16.1
40°-50°	732.1	17.4
50°-60°	709.2	16.8
60°-70°	600.7	14.3
70°-80°	363.1	8.6
80°-90°	79.8	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°	1048.0	24.9
0°-40°	1728.4	41.0
0°-60°	3169.7	75.2
0°-90°	4213.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4213.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1338	1338	1338	1338	1338	
5°	1335	1335	1345	1338	1328	127
15°	1286	1289	1292	1296	1299	363
25°	1188	1194	1207	1217	1224	548
35°	1054	1060	1083	1112	1129	659
45°	883	900	939	998	1034	681
55°	677	707	789	880	926	605
65°	448	497	618	717	762	441
75°	213	288	389	396	386	229
85°	52	62	65	62	59	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1338.3	1338.3	1338.3	1338.3	1338.3
2.5°	1354.6	1351.3	1341.5	1335.0	1328.4
5°	1335.0	1335.0	1344.8	1338.3	1328.4
7.5°	1325.2	1325.2	1325.2	1341.5	1325.2
10°	1315.3	1318.6	1315.3	1328.4	1315.3
12.5°	1305.5	1305.5	1305.5	1308.8	1308.8
15°	1285.9	1289.2	1292.4	1295.7	1299.0
17.5°	1266.3	1269.5	1276.1	1279.4	1282.6
20°	1246.6	1249.9	1259.7	1259.7	1266.3
22.5°	1220.5	1220.5	1233.5	1236.8	1246.6
25°	1187.7	1194.3	1207.4	1217.2	1223.7
27.5°	1158.3	1164.8	1177.9	1191.0	1200.8
30°	1125.6	1132.1	1145.2	1164.8	1177.9
32.5°	1089.6	1096.1	1115.8	1138.7	1151.7
35°	1053.6	1060.1	1083.0	1112.5	1128.8
37.5°	1014.3	1024.1	1050.3	1083.0	1102.7
40°	975.1	984.9	1014.3	1050.3	1079.8
42.5°	929.3	942.3	975.1	1024.1	1056.9
45°	883.4	899.8	939.1	998.0	1034.0
47.5°	834.4	850.7	896.5	971.8	1011.1
50°	785.3	804.9	860.5	942.3	984.9
52.5°	732.9	752.6	824.5	912.9	958.7
55°	677.3	706.8	788.6	880.2	926.0
57.5°	621.7	654.4	746.0	844.2	893.3
60°	562.8	602.1	706.8	804.9	854.0
62.5°	507.2	549.7	664.2	762.4	811.5
65°	448.3	497.3	618.4	716.6	762.4
67.5°	386.1	448.3	566.1	660.9	706.8
70°	323.9	395.9	513.7	602.1	644.6
72.5°	268.3	343.6	454.8	530.1	530.1
75°	212.7	287.9	389.4	395.9	386.1
77.5°	163.6	235.6	304.3	278.1	284.7
80°	121.1	180.0	193.0	202.9	209.4
82.5°	81.8	121.1	124.3	130.9	130.9
85°	52.4	62.2	65.4	62.2	58.9
87.5°	22.9	26.2	19.6	13.1	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)