

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

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4118.0 lumens
Efficiency: N/A
Efficacy: 68.6 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

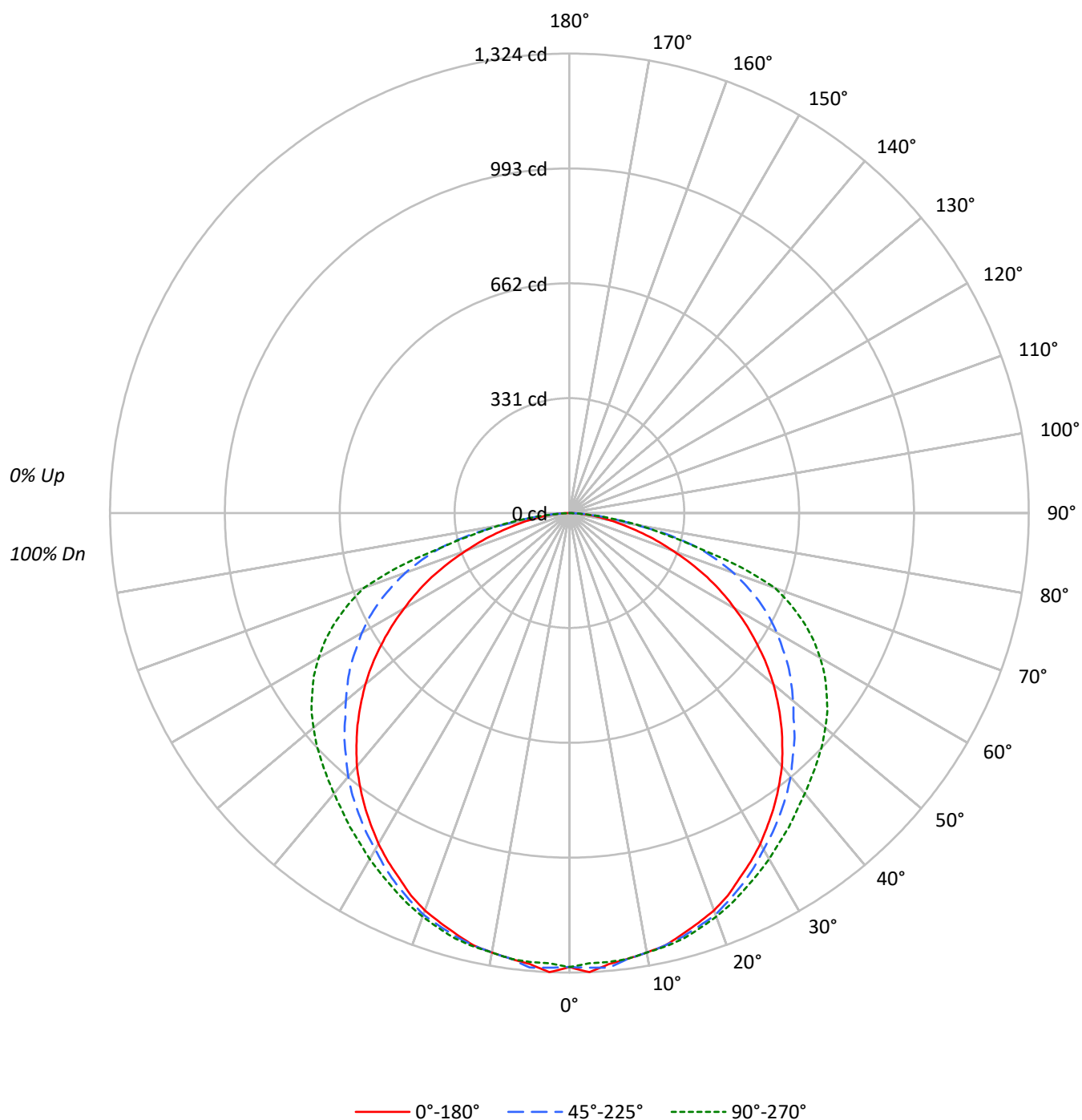
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	1760	1760	1760
5°	1758	1767	1746
10°	1749	1740	1741
15°	1739	1735	1745
20°	1729	1729	1740
25°	1704	1710	1735
30°	1685	1687	1739
35°	1662	1676	1751
40°	1639	1667	1779
45°	1603	1658	1831
50°	1560	1656	1902
55°	1499	1681	1981
60°	1419	1703	2067
65°	1324	1728	2142
70°	1165	1724	2179
75°	989	1652	1653
80°	803	1124	1236
85°	615	615	566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.2	3.0
10°-20°	356.6	8.7
20°-30°	543.5	13.2
30°-40°	665.0	16.1
40°-50°	715.5	17.4
50°-60°	693.1	16.8
60°-70°	587.1	14.3
70°-80°	354.9	8.6
80°-90°	78.0	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°	1024.3	24.9
0°-40°	1689.3	41.0
0°-60°	3097.9	75.2
0°-90°	4118.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4118.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1308	1308	1308	1308	1308	
5°	1305	1305	1314	1308	1298	124
15°	1257	1260	1263	1266	1270	355
25°	1161	1167	1180	1190	1196	536
35°	1030	1036	1058	1087	1103	644
45°	864	879	918	975	1011	666
55°	662	691	771	860	905	591
65°	438	486	604	700	745	431
75°	208	281	381	387	377	223
85°	51	61	64	61	58	58
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1308.0	1308.0	1308.0	1308.0	1308.0
2.5°	1324.0	1320.8	1311.2	1304.8	1298.4
5°	1304.8	1304.8	1314.4	1308.0	1298.4
7.5°	1295.2	1295.2	1295.2	1311.2	1295.2
10°	1285.6	1288.8	1285.6	1298.4	1285.6
12.5°	1276.0	1276.0	1276.0	1279.2	1279.2
15°	1256.8	1260.0	1263.2	1266.4	1269.6
17.5°	1237.6	1240.8	1247.2	1250.4	1253.6
20°	1218.4	1221.6	1231.2	1231.2	1237.6
22.5°	1192.8	1192.8	1205.6	1208.8	1218.4
25°	1160.9	1167.3	1180.1	1189.6	1196.0
27.5°	1132.1	1138.5	1151.3	1164.1	1173.7
30°	1100.1	1106.5	1119.3	1138.5	1151.3
32.5°	1064.9	1071.3	1090.5	1112.9	1125.7
35°	1029.7	1036.1	1058.5	1087.3	1103.3
37.5°	991.4	1001.0	1026.6	1058.5	1077.7
40°	953.0	962.6	991.4	1026.6	1055.3
42.5°	908.2	921.0	953.0	1001.0	1032.9
45°	863.5	879.4	917.8	975.4	1010.6
47.5°	815.5	831.5	876.2	949.8	988.2
50°	767.5	786.7	841.1	921.0	962.6
52.5°	716.3	735.5	805.9	892.2	937.0
55°	662.0	690.8	770.7	860.3	905.0
57.5°	607.6	639.6	729.1	825.1	873.0
60°	550.1	588.4	690.8	786.7	834.7
62.5°	495.7	537.3	649.2	745.1	793.1
65°	438.1	486.1	604.4	700.4	745.1
67.5°	377.4	438.1	553.3	646.0	690.8
70°	316.6	387.0	502.1	588.4	630.0
72.5°	262.2	335.8	444.5	518.1	518.1
75°	207.9	281.4	380.6	387.0	377.4
77.5°	159.9	230.3	297.4	271.8	278.2
80°	118.3	175.9	188.7	198.3	204.7
82.5°	79.9	118.3	121.5	127.9	127.9
85°	51.2	60.8	64.0	60.8	57.6
87.5°	22.4	25.6	19.2	12.8	9.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)