

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-RDP-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-LD5-60SE-RDP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003.9 lumens
Efficiency: N/A
Efficacy: 66.7 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

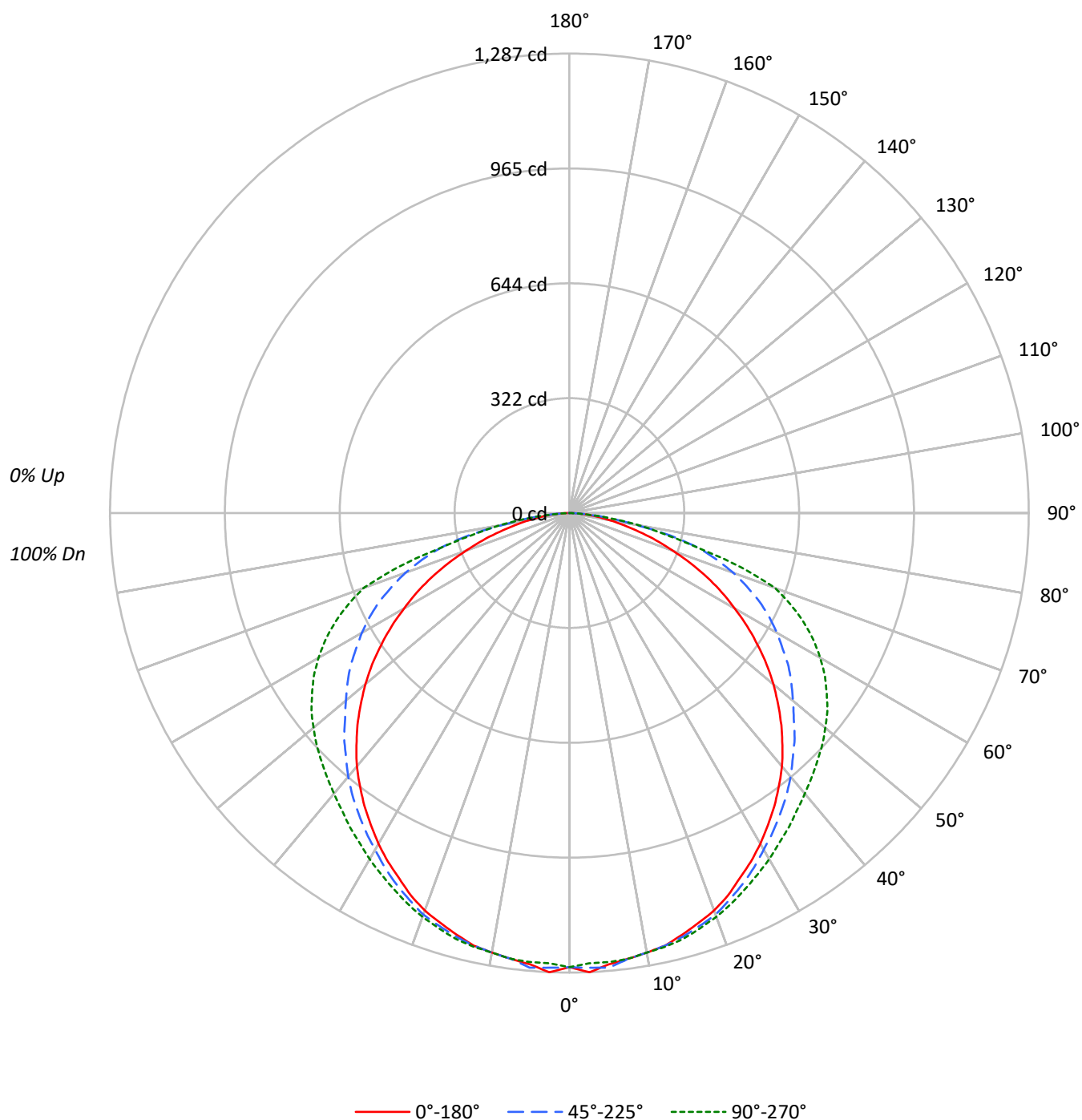
Input Watts (W): 60
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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				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°	1711	1711	1711
5°	1710	1718	1698
10°	1700	1692	1693
15°	1691	1687	1697
20°	1681	1682	1692
25°	1656	1662	1687
30°	1638	1641	1690
35°	1616	1630	1702
40°	1594	1621	1730
45°	1558	1613	1781
50°	1517	1610	1849
55°	1458	1634	1926
60°	1379	1655	2010
65°	1287	1680	2083
70°	1133	1676	2119
75°	961	1606	1607
80°	780	1093	1201
85°	597	598	550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.7	3.0
10°-20°	346.8	8.7
20°-30°	528.4	13.2
30°-40°	646.6	16.1
40°-50°	695.7	17.4
50°-60°	673.9	16.8
60°-70°	570.9	14.3
70°-80°	345.1	8.6
80°-90°	75.8	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°	995.9	24.9
0°-40°	1642.5	41.0
0°-60°	3012.1	75.2
0°-90°	4003.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4003.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1272	1272	1272	1272	1272	
5°	1269	1269	1278	1272	1262	121
15°	1222	1225	1228	1231	1234	345
25°	1129	1135	1147	1157	1163	521
35°	1001	1007	1029	1057	1073	626
45°	840	855	892	948	983	647
55°	644	672	749	836	880	575
65°	426	473	588	681	724	419
75°	202	274	370	376	367	217
85°	50	59	62	59	56	56
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1271.7	1271.7	1271.7	1271.7	1271.7
2.5°	1287.3	1284.2	1274.8	1268.6	1262.4
5°	1268.6	1268.6	1277.9	1271.7	1262.4
7.5°	1259.3	1259.3	1259.3	1274.8	1259.3
10°	1250.0	1253.1	1250.0	1262.4	1250.0
12.5°	1240.6	1240.6	1240.6	1243.7	1243.7
15°	1222.0	1225.1	1228.2	1231.3	1234.4
17.5°	1203.3	1206.4	1212.7	1215.8	1218.9
20°	1184.7	1187.8	1197.1	1197.1	1203.3
22.5°	1159.8	1159.8	1172.2	1175.3	1184.7
25°	1128.7	1134.9	1147.4	1156.7	1162.9
27.5°	1100.7	1106.9	1119.4	1131.8	1141.1
30°	1069.6	1075.8	1088.3	1106.9	1119.4
32.5°	1035.4	1041.6	1060.3	1082.1	1094.5
35°	1001.2	1007.4	1029.2	1057.2	1072.7
37.5°	963.9	973.2	998.1	1029.2	1047.9
40°	926.6	935.9	963.9	998.1	1026.1
42.5°	883.1	895.5	926.6	973.2	1004.3
45°	839.5	855.1	892.4	948.4	982.6
47.5°	792.9	808.4	852.0	923.5	960.8
50°	746.2	764.9	817.8	895.5	935.9
52.5°	696.5	715.2	783.6	867.5	911.0
55°	643.6	671.6	749.4	836.4	879.9
57.5°	590.8	621.9	708.9	802.2	848.9
60°	534.8	572.1	671.6	764.9	811.5
62.5°	482.0	522.4	631.2	724.5	771.1
65°	426.0	472.6	587.7	681.0	724.5
67.5°	366.9	426.0	537.9	628.1	671.6
70°	307.8	376.2	488.2	572.1	612.5
72.5°	255.0	326.5	432.2	503.7	503.7
75°	202.1	273.6	370.0	376.2	366.9
77.5°	155.5	223.9	289.2	264.3	270.5
80°	115.0	171.0	183.5	192.8	199.0
82.5°	77.7	115.0	118.2	124.4	124.4
85°	49.7	59.1	62.2	59.1	56.0
87.5°	21.8	24.9	18.7	12.4	9.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)