

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-LD5-55-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-LD5-55-SQP-UNV-L840-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878.3 lumens
Efficiency: N/A
Efficacy: 84.7 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

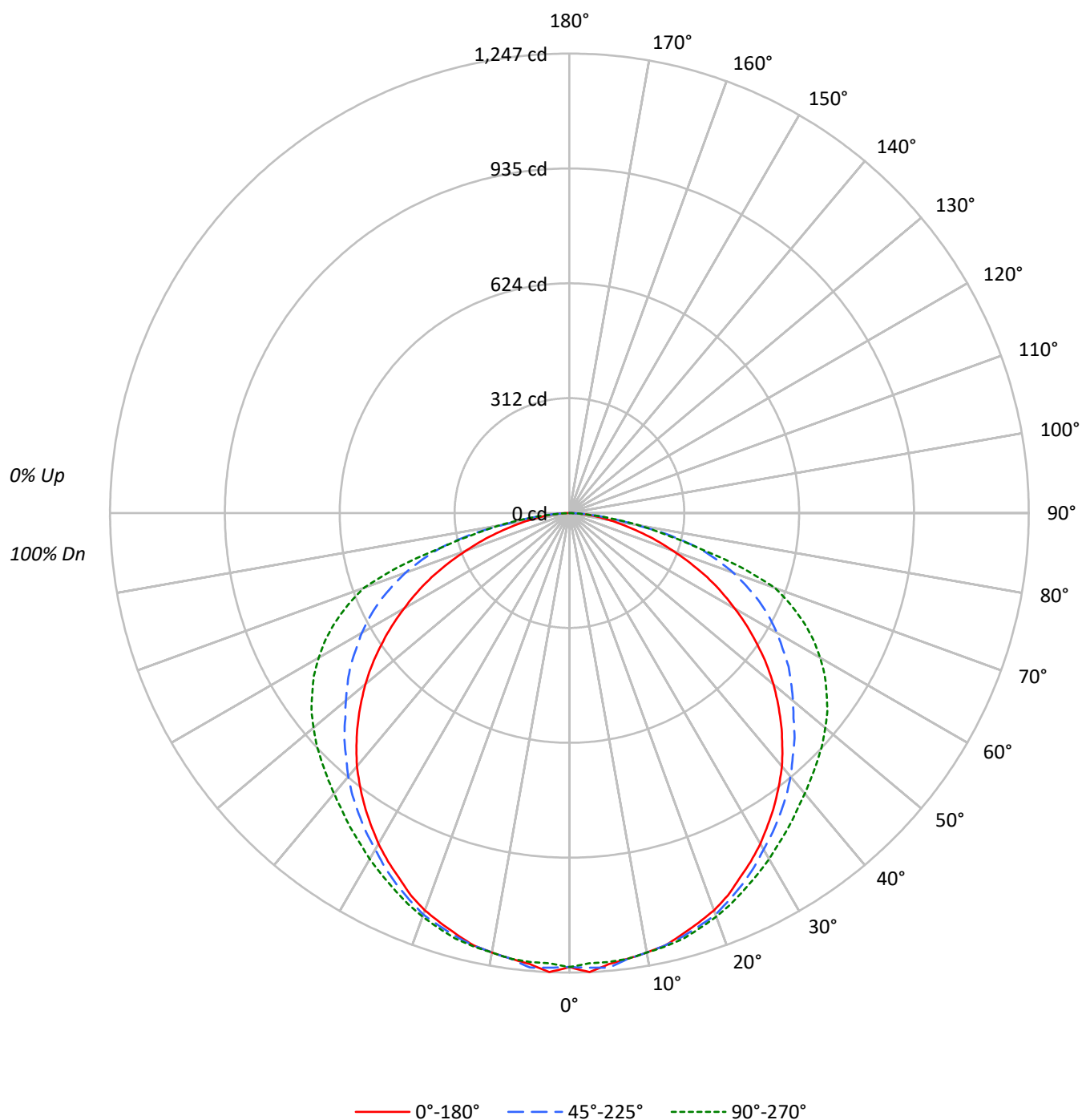
Input Watts (W): 45.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	1658	1658	1658
5°	1656	1664	1644
10°	1647	1639	1640
15°	1638	1634	1644
20°	1628	1629	1639
25°	1604	1610	1634
30°	1587	1589	1637
35°	1566	1579	1649
40°	1544	1570	1675
45°	1510	1562	1725
50°	1469	1559	1791
55°	1412	1583	1866
60°	1336	1603	1947
65°	1247	1627	2018
70°	1098	1624	2052
75°	931	1555	1557
80°	756	1059	1164
85°	579	579	532



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.0	3.0
10°-20°	335.9	8.7
20°-30°	511.9	13.2
30°-40°	626.3	16.1
40°-50°	673.9	17.4
50°-60°	652.8	16.8
60°-70°	553.0	14.3
70°-80°	334.2	8.6
80°-90°	73.4	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°	964.7	24.9
0°-40°	1591.0	41.0
0°-60°	2917.7	75.2
0°-90°	3878.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3878.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1232	1232	1232	1232	1232	
5°	1229	1229	1238	1232	1223	117
15°	1184	1187	1190	1193	1196	334
25°	1093	1099	1111	1120	1126	505
35°	970	976	997	1024	1039	607
45°	813	828	864	919	952	627
55°	624	651	726	810	852	557
65°	413	458	569	660	702	406
75°	196	265	358	364	355	210
85°	48	57	60	57	54	54
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1231.9	1231.9	1231.9	1231.9	1231.9
2.5°	1246.9	1243.9	1234.9	1228.8	1222.8
5°	1228.8	1228.8	1237.9	1231.9	1222.8
7.5°	1219.8	1219.8	1219.8	1234.9	1219.8
10°	1210.8	1213.8	1210.8	1222.8	1210.8
12.5°	1201.7	1201.7	1201.7	1204.7	1204.7
15°	1183.7	1186.7	1189.7	1192.7	1195.7
17.5°	1165.6	1168.6	1174.6	1177.6	1180.6
20°	1147.5	1150.5	1159.6	1159.6	1165.6
22.5°	1123.4	1123.4	1135.5	1138.5	1147.5
25°	1093.3	1099.3	1111.4	1120.4	1126.4
27.5°	1066.2	1072.2	1084.3	1096.3	1105.4
30°	1036.1	1042.1	1054.2	1072.2	1084.3
32.5°	1003.0	1009.0	1027.0	1048.1	1060.2
35°	969.8	975.8	996.9	1024.0	1039.1
37.5°	933.7	942.7	966.8	996.9	1015.0
40°	897.5	906.6	933.7	966.8	993.9
42.5°	855.4	867.4	897.5	942.7	972.8
45°	813.2	828.3	864.4	918.6	951.7
47.5°	768.0	783.1	825.3	894.5	930.7
50°	722.8	740.9	792.1	867.4	906.6
52.5°	674.7	692.7	759.0	840.3	882.5
55°	623.5	650.6	725.9	810.2	852.4
57.5°	572.3	602.4	686.7	777.1	822.2
60°	518.0	554.2	650.6	740.9	786.1
62.5°	466.8	506.0	611.4	701.8	746.9
65°	412.6	457.8	569.2	659.6	701.8
67.5°	355.4	412.6	521.1	608.4	650.6
70°	298.2	364.4	472.9	554.2	593.3
72.5°	247.0	316.2	418.6	487.9	487.9
75°	195.8	265.0	358.4	364.4	355.4
77.5°	150.6	216.9	280.1	256.0	262.0
80°	111.4	165.7	177.7	186.7	192.8
82.5°	75.3	111.4	114.5	120.5	120.5
85°	48.2	57.2	60.2	57.2	54.2
87.5°	21.1	24.1	18.1	12.0	9.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)