

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-LD5-55SE-SQP-UNV-L850-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-LD5-55SE-SQP-UNV-L850-CD1-U
Description:

Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4223.4 lumens
Efficiency: N/A
Efficacy: 77.2 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

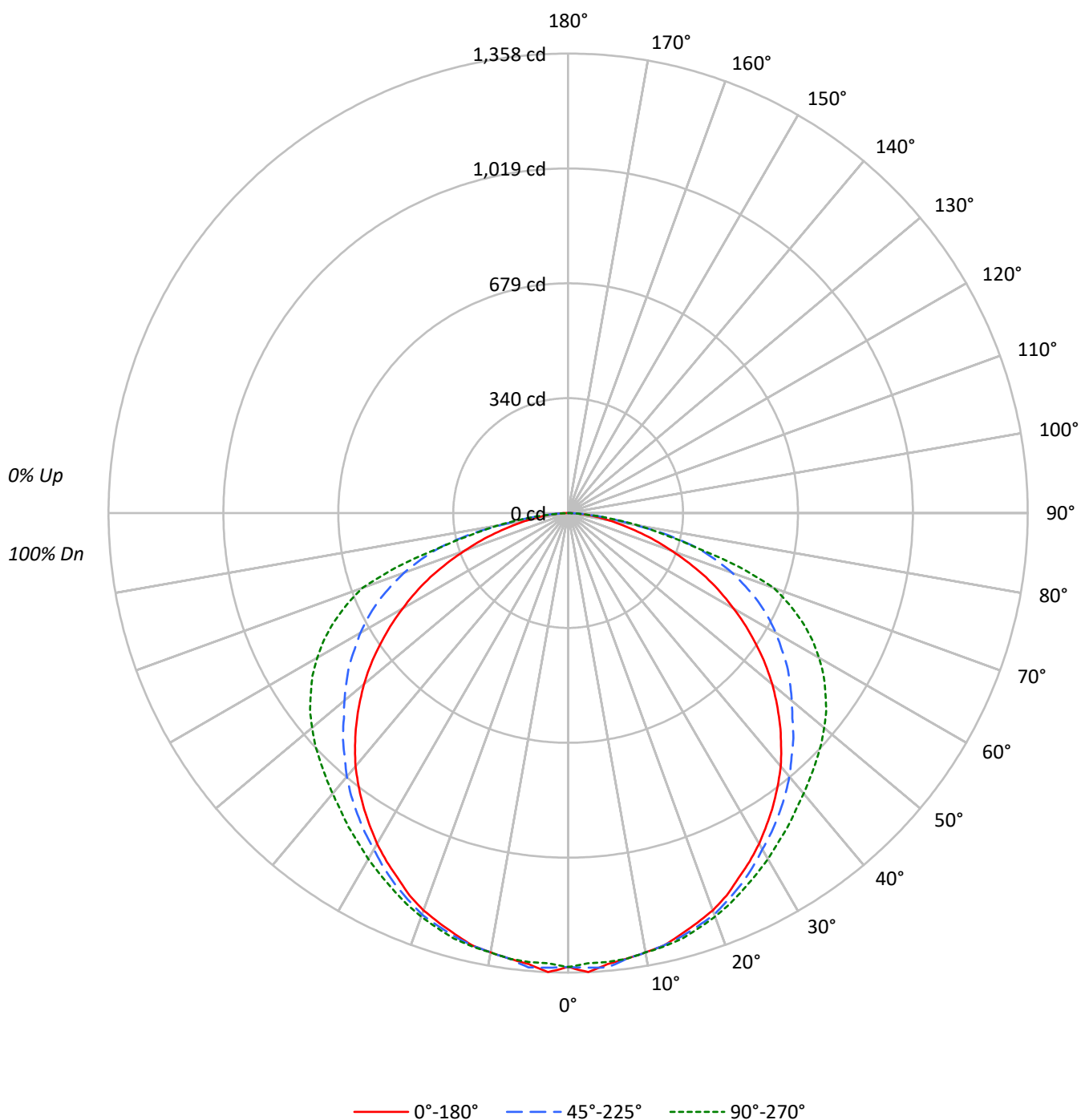
Input Watts (W): 54.69
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	108	103	99	95	105	101	97	93	97	93	90		93	90	87		89
2	98	89	82	76	95	87	81	75	84	78	73		80	76	71		77
3	89	78	69	62	86	76	68	62	73	66	61		70	64	59		68
4	81	68	59	52	79	67	58	52	64	57	51		62	56	50		60
5	74	61	52	45	72	60	51	44	58	50	44		56	49	43		54
6	68	55	45	39	66	54	45	39	52	44	38		50	43	38		48
7	63	49	40	34	62	49	40	34	47	39	34		45	39	33		44
8	59	45	36	30	57	44	36	30	43	35	30		42	35	30		40
9	55	41	33	27	54	41	33	27	39	32	27		38	32	27		37
10	51	38	30	24	50	37	30	24	36	29	24		35	29	24		35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1805	1805	1805
5°	1803	1812	1791
10°	1793	1785	1786
15°	1784	1779	1790
20°	1773	1774	1785
25°	1747	1753	1780
30°	1728	1731	1783
35°	1705	1719	1796
40°	1681	1710	1825
45°	1644	1701	1878
50°	1600	1698	1950
55°	1538	1724	2032
60°	1455	1746	2120
65°	1358	1772	2197
70°	1195	1768	2235
75°	1014	1694	1695
80°	824	1153	1267
85°	630	631	580



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	127.4	3.0
10°-20°	365.8	8.7
20°-30°	557.4	13.2
30°-40°	682.0	16.1
40°-50°	733.8	17.4
50°-60°	710.8	16.8
60°-70°	602.1	14.3
70°-80°	364.0	8.6
80°-90°	80.0	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°	1050.5	24.9
0°-40°	1732.6	41.0
0°-60°	3177.3	75.2
0°-90°	4223.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4223.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1342	1342	1342	1342	1342	
5°	1338	1338	1348	1342	1332	127
15°	1289	1292	1296	1299	1302	364
25°	1191	1197	1210	1220	1227	550
35°	1056	1063	1086	1115	1132	661
45°	886	902	941	1000	1036	683
55°	679	708	790	882	928	606
65°	449	498	620	718	764	442
75°	213	289	390	397	387	229
85°	52	62	66	62	59	59
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1357.9	1354.6	1344.7	1338.2	1331.6
5°	1338.2	1338.2	1348.0	1341.5	1331.6
7.5°	1328.3	1328.3	1328.3	1344.7	1328.3
10°	1318.5	1321.8	1318.5	1331.6	1318.5
12.5°	1308.7	1308.7	1308.7	1311.9	1311.9
15°	1289.0	1292.3	1295.5	1298.8	1302.1
17.5°	1269.3	1272.6	1279.1	1282.4	1285.7
20°	1249.6	1252.9	1262.7	1262.7	1269.3
22.5°	1223.4	1223.4	1236.5	1239.8	1249.6
25°	1190.6	1197.1	1210.3	1220.1	1226.7
27.5°	1161.1	1167.6	1180.7	1193.9	1203.7
30°	1128.3	1134.8	1148.0	1167.6	1180.7
32.5°	1092.2	1098.8	1118.4	1141.4	1154.5
35°	1056.1	1062.7	1085.6	1115.2	1131.6
37.5°	1016.8	1026.6	1052.8	1085.6	1105.3
40°	977.4	987.2	1016.8	1052.8	1082.4
42.5°	931.5	944.6	977.4	1026.6	1059.4
45°	885.6	902.0	941.3	1000.4	1036.4
47.5°	836.4	852.8	898.7	974.1	1013.5
50°	787.2	806.8	862.6	944.6	987.2
52.5°	734.7	754.4	826.5	915.1	961.0
55°	678.9	708.4	790.4	882.3	928.2
57.5°	623.2	656.0	747.8	846.2	895.4
60°	564.1	603.5	708.4	806.8	856.0
62.5°	508.4	551.0	665.8	764.2	813.4
65°	449.3	498.5	619.9	718.3	764.2
67.5°	387.0	449.3	567.4	662.5	708.4
70°	324.7	396.9	514.9	603.5	646.1
72.5°	268.9	344.4	455.9	531.3	531.3
75°	213.2	288.6	390.3	396.9	387.0
77.5°	164.0	236.1	305.0	278.8	285.3
80°	121.4	180.4	193.5	203.4	209.9
82.5°	82.0	121.4	124.6	131.2	131.2
85°	52.5	62.3	65.6	62.3	59.0
87.5°	23.0	26.2	19.7	13.1	9.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)