

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P519462

Luminaire Tested: **SQ4-WB-125U-050D-840-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519462
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-125U-050D-840-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

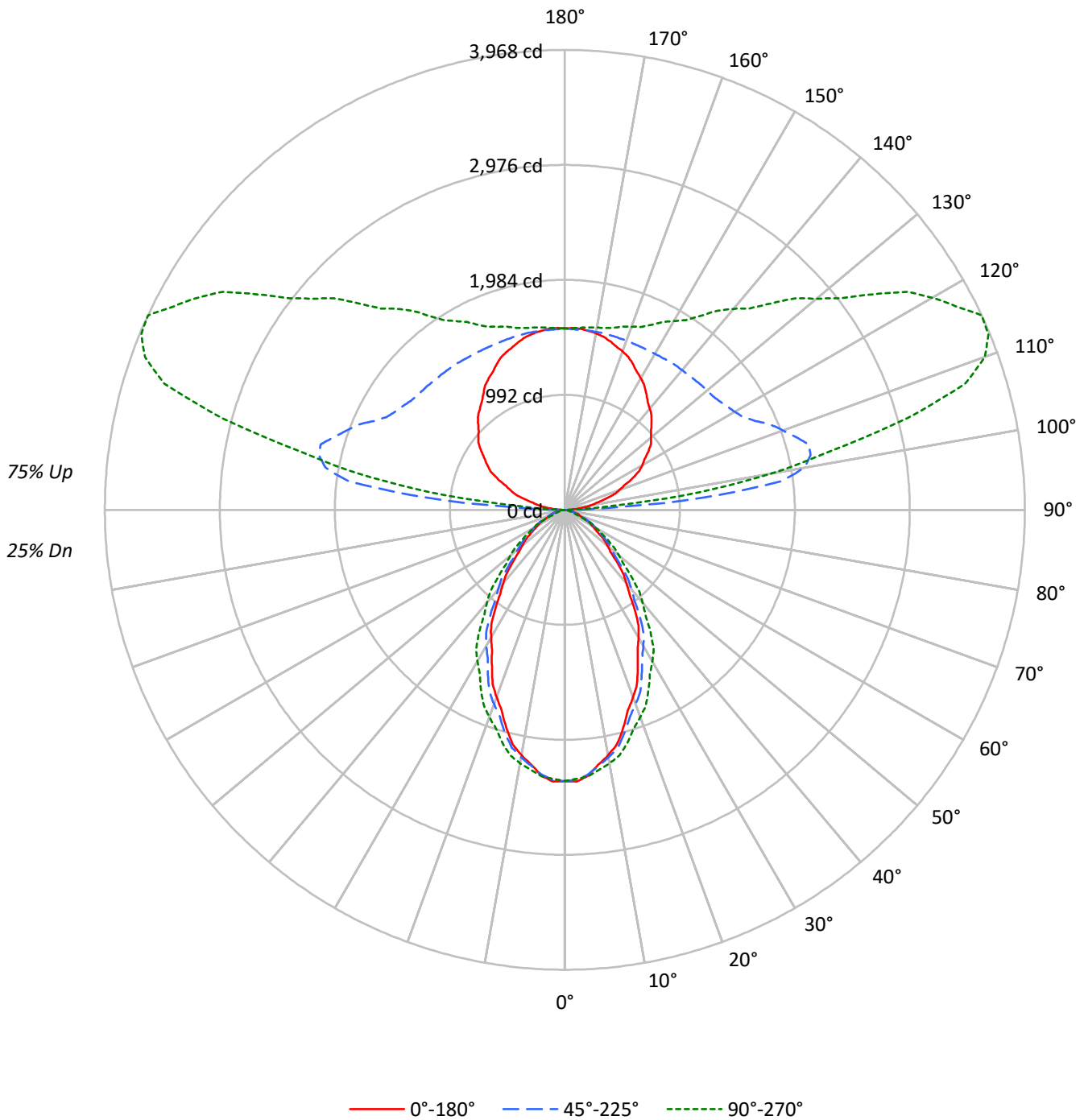
Lumens per Lamp: N/A
Luminaire Lumens: 13513.5 lumens
Efficiency: N/A
Efficacy: 139.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 96.8
Input Voltage (V): 120
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: 24 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	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	70	70	70	51	51	51	33	33	33	25
1	93	89	85	82	83	79	76	74	62	60	58	45	44	43	30	30	29	22
2	85	78	73	68	76	70	65	62	55	52	49	41	39	37	27	26	26	20
3	78	69	63	57	69	62	57	52	49	45	42	36	34	32	25	24	22	17
4	71	62	54	49	64	55	49	45	44	39	36	33	30	28	23	21	20	16
5	66	55	48	42	59	50	43	38	39	35	31	30	27	24	21	19	18	14
6	61	49	42	37	54	45	38	34	36	31	28	27	24	22	19	17	16	13
7	56	45	37	32	50	40	34	30	32	28	24	25	22	19	17	16	14	11
8	52	41	33	29	46	37	31	26	30	25	22	23	20	17	16	14	13	10
9	48	37	30	25	43	34	28	23	27	23	20	21	18	16	15	13	12	10
10	45	34	27	23	41	31	25	21	25	21	18	19	16	14	14	12	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10797	10797	10797
5°	10662	10624	10686
10°	10074	10165	10401
15°	9300	9515	9942
20°	8445	8762	9342
25°	7574	7988	8704
30°	6772	7216	8042
35°	5922	6350	7259
40°	4985	5381	6283
45°	4114	4469	5246
50°	3435	3744	4371
55°	2915	3213	3610
60°	2492	2785	2880
65°	1984	2342	1861
70°	1759	1829	1136
75°	1629	1483	695
80°	1501	1363	600
85°	1360	1249	487



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	214.7	1.6
10°-20°	558.4	4.1
20°-30°	723.3	5.4
30°-40°	708.3	5.2
40°-50°	542.1	4.0
50°-60°	361.3	2.7
60°-70°	197.1	1.5
70°-80°	82.1	0.6
80°-90°	26.9	0.2
90°-100°	731.8	5.4
100°-110°	1971.4	14.6
110°-120°	2068.9	15.3
120°-130°	1678.9	12.4
130°-140°	1316.7	9.7
140°-150°	1010.9	7.5
150°-160°	726.8	5.4
160°-170°	444.1	3.3
170°-180°	149.7	1.1
0°-30°	1496.4	11.1
0°-40°	2204.6	16.3
0°-60°	3108.0	23.0
0°-90°	3414.2	25.3
90°-120°	4772.2	35.3
90°-150°	8778.6	65.0
90°-180°	10099.0	74.7
0°-180°	13513.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2340	2340	2340	2340	2340	
5°	2302	2279	2294	2300	2308	214
15°	1947	1940	1992	2047	2082	544
25°	1488	1492	1569	1638	1710	684
35°	1052	1057	1128	1204	1289	654
45°	631	643	685	737	804	492
55°	362	378	400	415	449	329
65°	182	197	215	188	170	189
75°	91	91	83	57	39	98
85°	26	26	24	15	9	28
90°	4	12	24	26	26	9
95°	112	398	1200	614	424	117
105°	365	567	2180	3262	3061	383
115°	644	788	1816	3508	3968	633
125°	879	1009	1630	2755	3242	785
135°	1058	1181	1584	2223	2517	817
145°	1224	1319	1564	1900	2041	767
155°	1389	1440	1550	1705	1760	639
165°	1507	1524	1556	1618	1626	425
175°	1566	1564	1558	1580	1576	149
180°	1564	1564	1564	1564	1564	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2340.5	2340.5	2340.5	2340.5	2340.5
2.5°	2346.3	2325.4	2330.7	2330.5	2324.1
5°	2302.5	2279.4	2294.3	2299.6	2307.7
7.5°	2217.1	2199.6	2226.7	2246.8	2263.1
10°	2150.5	2135.5	2170.0	2199.3	2220.4
12.5°	2073.3	2060.7	2103.5	2142.7	2170.3
15°	1947.2	1940.2	1992.4	2046.6	2081.7
17.5°	1812.2	1808.8	1868.7	1932.0	1977.0
20°	1720.2	1719.2	1784.9	1850.8	1903.0
22.5°	1627.4	1629.6	1698.7	1767.2	1826.6
25°	1488.1	1492.1	1569.3	1637.7	1710.0
27.5°	1359.3	1361.1	1440.9	1513.1	1590.2
30°	1271.4	1276.4	1354.6	1429.4	1509.7
32.5°	1183.5	1189.3	1265.9	1343.1	1425.1
35°	1051.6	1056.7	1127.6	1203.5	1288.9
37.5°	915.7	922.5	985.5	1057.3	1141.2
40°	827.8	837.8	893.5	961.1	1043.4
42.5°	743.1	755.6	807.2	871.4	945.7
45°	630.6	642.6	685.0	736.9	804.1
47.5°	533.6	547.5	580.0	624.7	682.1
50°	478.6	491.6	521.7	554.8	609.0
52.5°	430.1	443.2	470.0	495.4	541.6
55°	362.5	377.6	399.5	414.7	448.8
57.5°	307.1	321.5	338.9	345.7	366.4
60°	270.1	286.2	301.9	301.2	312.2
62.5°	236.4	250.1	265.8	254.9	255.5
65°	181.8	196.8	214.6	187.6	170.5
67.5°	146.9	150.1	168.4	130.8	110.5
70°	130.4	130.4	135.6	101.3	84.2
72.5°	114.8	114.8	110.1	82.4	64.5
75°	91.4	91.4	83.2	57.1	39.0
77.5°	70.5	69.6	63.7	42.6	28.3
80°	56.5	56.5	51.3	33.6	22.6
82.5°	44.2	44.2	39.8	26.3	16.8
85°	25.7	25.7	23.6	15.3	9.2
87.5°	9.8	11.4	13.0	10.1	9.3
90°	4.0	11.8	23.9	25.9	25.9
92.5°	48.6	171.8	339.6	163.5	113.6
95°	111.6	398.0	1199.7	613.5	424.5
97.5°	178.2	455.6	1881.7	1572.0	1185.4
100°	229.2	478.6	2098.5	2195.6	1821.5
102.5°	278.6	510.9	2170.3	2662.7	2355.6
105°	364.7	567.4	2180.2	3261.8	3061.1
107.5°	446.0	626.8	2087.4	3569.7	3621.5
110°	500.2	671.7	2002.9	3665.2	3854.3

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	557.6	716.6	1921.5	3644.1	3954.7
115°	643.7	787.9	1815.5	3508.0	3967.9
117.5°	722.2	857.5	1733.4	3290.7	3802.8
120°	773.2	903.8	1692.0	3134.8	3660.9
122.5°	817.9	946.9	1661.7	2975.4	3499.9
125°	878.9	1009.4	1630.2	2755.3	3242.4
127.5°	937.5	1066.1	1610.3	2561.2	2996.1
130°	972.5	1101.1	1602.3	2450.0	2831.9
132.5°	1007.6	1134.7	1594.3	2352.0	2702.8
135°	1058.2	1181.0	1584.4	2222.8	2517.0
137.5°	1106.5	1224.2	1579.2	2113.2	2354.8
140°	1139.9	1253.0	1574.4	2045.7	2263.9
142.5°	1175.0	1280.2	1571.2	1982.7	2166.7
145°	1223.6	1319.1	1564.4	1900.4	2040.7
147.5°	1276.2	1359.3	1557.6	1831.2	1941.5
150°	1311.3	1383.4	1554.5	1787.7	1879.3
152.5°	1343.2	1406.0	1552.9	1752.3	1826.7
155°	1389.0	1439.7	1550.5	1705.2	1759.7
157.5°	1429.3	1468.7	1550.9	1672.1	1708.7
160°	1454.8	1487.9	1552.5	1652.7	1680.0
162.5°	1477.1	1504.0	1554.1	1636.6	1656.1
165°	1506.6	1524.2	1556.5	1618.4	1626.2
167.5°	1530.5	1540.7	1558.4	1604.4	1607.5
170°	1546.5	1550.4	1558.4	1596.3	1596.3
172.5°	1556.1	1556.8	1560.0	1588.3	1588.3
175°	1566.4	1564.5	1558.4	1580.3	1576.4
177.5°	1570.8	1567.7	1559.6	1572.3	1569.2
180°	1564.4	1564.4	1564.4	1564.4	1564.4

(END OF REPORT)