

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: P562444

Luminaire Tested: **SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562444
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

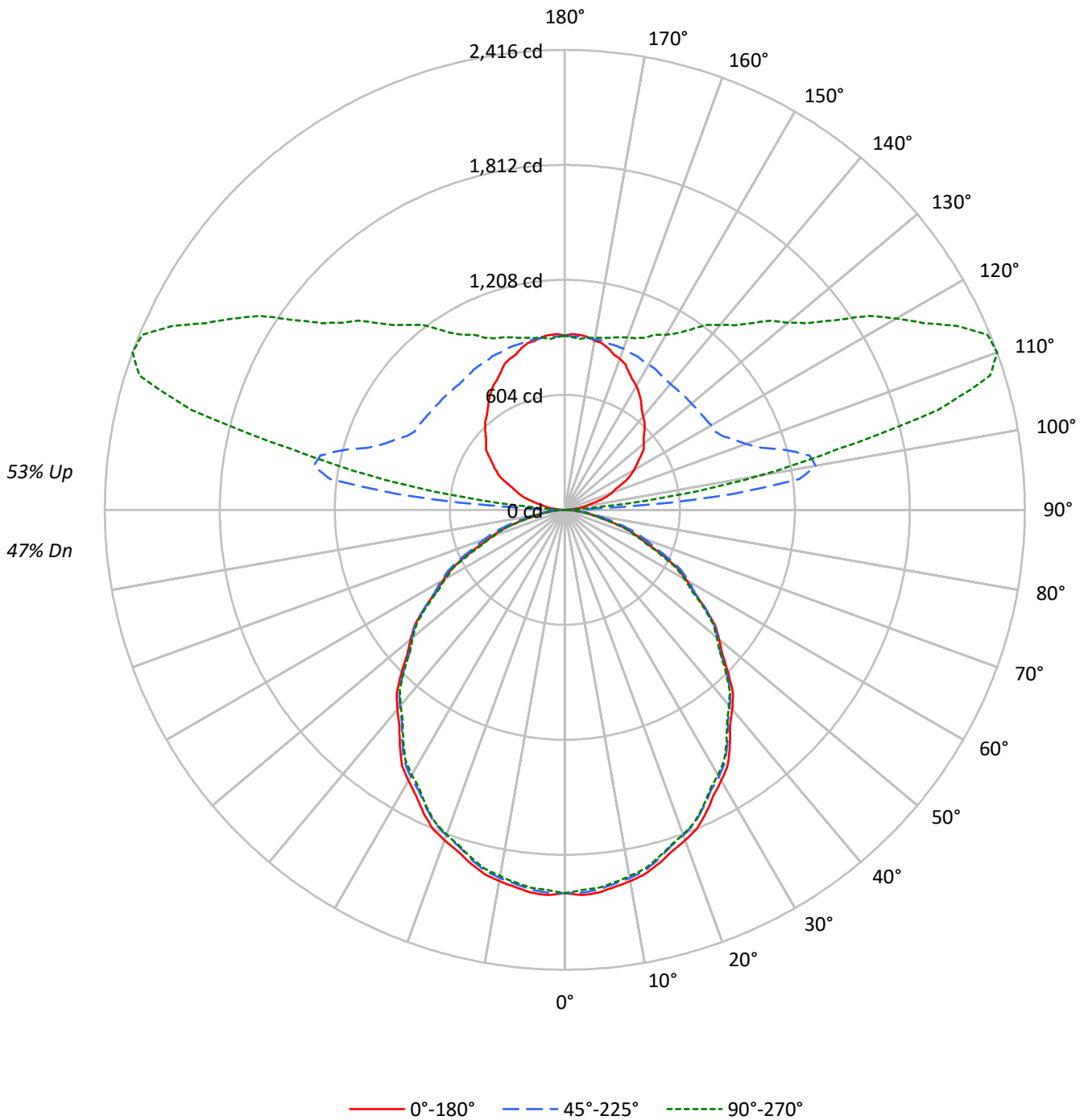
Lumens per Lamp: N/A
Luminaire Lumens: 10806.0 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97.1
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	47
1	97	93	89	86	89	86	82	79	72	70	67	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34
3	81	72	64	58	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	26	21	18	21	18	16	13
10	47	35	27	23	43	32	26	21	28	23	19	24	19	17	20	16	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18580	18580	18580
5°	18700	18552	18470
10°	18551	18401	18300
15°	18354	18150	18082
20°	18134	17856	17821
25°	17881	17556	17501
30°	17504	17238	17126
35°	17006	16766	16666
40°	16475	16220	16155
45°	15835	15626	15557
50°	15179	15051	14949
55°	14469	14469	14240
60°	13587	13849	13358
65°	12433	13053	12123
70°	10960	12012	10674
75°	9361	10751	9108
80°	7258	9048	7353
85°	4700	6944	6203



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	189.6	1.8
10°-20°	535.4	5.0
20°-30°	794.1	7.3
30°-40°	929.2	8.6
40°-50°	925.1	8.6
50°-60°	798.8	7.4
60°-70°	575.0	5.3
70°-80°	301.5	2.8
80°-90°	74.8	0.7
90°-100°	416.8	3.9
100°-110°	1186.1	11.0
110°-120°	1136.4	10.5
120°-130°	899.4	8.3
130°-140°	721.9	6.7
140°-150°	565.2	5.2
150°-160°	413.5	3.8
160°-170°	256.2	2.4
170°-180°	86.9	0.8
0°-30°	1519.1	14.1
0°-40°	2448.3	22.7
0°-60°	4172.2	38.6
0°-90°	5123.5	47.4
90°-120°	2739.4	25.4
90°-150°	4925.9	45.6
90°-180°	5682.0	52.6
0°-180°	10806.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2014	2014	2014	2014	2014	
5°	2019	1996	2003	1998	1994	191
15°	1922	1897	1900	1897	1893	542
25°	1756	1727	1725	1714	1719	808
35°	1510	1489	1489	1474	1480	944
45°	1214	1203	1198	1194	1192	936
55°	900	898	900	887	885	803
65°	570	587	598	574	555	564
75°	263	287	302	282	256	281
85°	44	58	66	62	59	59
90°	0	0	0	0	0	3
95°	45	180	807	279	172	52
105°	184	280	1209	2135	2030	195
115°	343	414	916	1942	2280	337
125°	484	536	875	1452	1736	433
135°	591	641	864	1226	1386	456
145°	697	733	871	1061	1157	436
155°	796	815	892	959	998	368
165°	880	883	903	922	936	247
175°	922	917	913	908	901	87
180°	915	915	915	915	915	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2013.8	2013.8	2013.8	2013.8	2013.8
2.5°	2025.1	2008.5	2013.8	2009.3	1999.6
5°	2019.1	1996.5	2003.1	1997.7	1994.3
7.5°	1998.5	1977.7	1982.5	1976.8	1974.7
10°	1980.1	1959.2	1964.1	1956.9	1953.4
12.5°	1958.8	1936.6	1941.4	1934.2	1932.2
15°	1921.5	1897.2	1900.2	1896.6	1893.1
17.5°	1878.2	1853.6	1854.1	1848.4	1847.7
20°	1847.0	1821.0	1818.6	1811.6	1815.1
22.5°	1812.9	1785.5	1783.1	1773.3	1778.1
25°	1756.5	1727.0	1724.6	1714.0	1719.2
27.5°	1691.2	1662.1	1662.1	1647.3	1652.9
30°	1643.0	1615.2	1618.1	1600.5	1607.5
32.5°	1591.9	1566.9	1568.4	1550.8	1557.8
35°	1509.9	1489.1	1488.6	1474.5	1479.7
37.5°	1426.1	1407.7	1404.8	1396.7	1398.1
40°	1367.9	1352.3	1346.7	1341.3	1341.3
42.5°	1306.9	1292.7	1287.0	1283.1	1281.7
45°	1213.6	1203.2	1197.6	1194.0	1192.3
47.5°	1121.3	1111.6	1106.8	1104.3	1102.5
50°	1057.5	1050.5	1048.6	1043.2	1041.5
52.5°	993.6	989.4	987.5	980.8	979.0
55°	899.5	897.8	899.5	887.1	885.3
57.5°	801.6	804.4	810.1	793.3	789.2
60°	736.3	743.3	750.5	730.8	723.9
62.5°	669.6	680.7	690.9	668.3	658.6
65°	569.5	586.9	597.9	574.4	555.3
67.5°	473.0	494.5	507.8	482.5	460.9
70°	406.3	430.6	445.3	419.9	395.7
72.5°	348.1	375.2	387.1	363.2	338.9
75°	262.6	286.9	301.6	281.5	255.5
77.5°	186.3	209.2	221.4	203.9	182.4
80°	136.6	160.9	170.3	155.7	138.4
82.5°	96.9	117.0	123.5	114.7	102.9
85°	44.4	58.2	65.6	62.0	58.6
87.5°	11.4	21.1	27.0	27.0	28.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.9	73.8	171.1	49.8	37.6
95°	45.2	179.6	807.0	279.3	172.2
97.5°	83.1	210.3	1242.8	889.3	609.4
100°	109.6	228.6	1337.4	1354.7	1043.5
102.5°	138.8	248.3	1316.6	1734.0	1462.3
105°	184.4	279.6	1208.7	2135.1	2029.6
107.5°	230.6	316.0	1082.8	2248.1	2342.0
110°	262.6	342.5	1010.5	2204.9	2415.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	293.2	369.1	961.8	2102.5	2403.2
115°	342.6	414.0	916.5	1941.7	2280.1
117.5°	386.1	453.1	889.8	1765.8	2124.2
120°	420.9	477.0	887.0	1665.2	2008.8
122.5°	448.7	504.8	880.0	1577.0	1896.1
125°	483.5	536.2	874.8	1451.7	1735.7
127.5°	521.4	570.7	872.0	1376.8	1610.8
130°	540.9	590.2	867.9	1324.7	1528.7
132.5°	561.8	609.7	867.9	1284.0	1471.7
135°	591.3	640.6	864.4	1226.3	1386.1
137.5°	619.1	667.1	864.0	1177.4	1315.5
140°	640.0	689.3	862.6	1137.0	1269.6
142.5°	663.7	704.8	866.8	1104.6	1223.7
145°	697.4	733.1	871.3	1061.3	1156.6
147.5°	726.3	761.0	879.0	1017.6	1099.9
150°	751.3	775.1	881.8	1003.1	1060.9
152.5°	770.8	796.0	884.5	983.5	1037.2
155°	796.5	815.2	892.2	959.2	998.3
157.5°	828.5	839.8	893.9	948.1	976.0
160°	845.2	853.7	900.9	939.7	963.5
162.5°	855.0	864.8	902.3	932.6	951.0
165°	880.0	883.4	902.6	922.1	935.7
167.5°	897.1	894.0	910.6	919.5	924.9
170°	902.6	900.9	907.9	909.7	916.5
172.5°	915.2	909.4	912.0	906.9	912.4
175°	921.8	916.7	913.1	907.7	900.9
177.5°	924.5	916.4	912.0	906.5	907.9
180°	914.8	914.8	914.8	914.8	914.8

(END OF REPORT)