

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: P562080

Luminaire Tested: **SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562080
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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

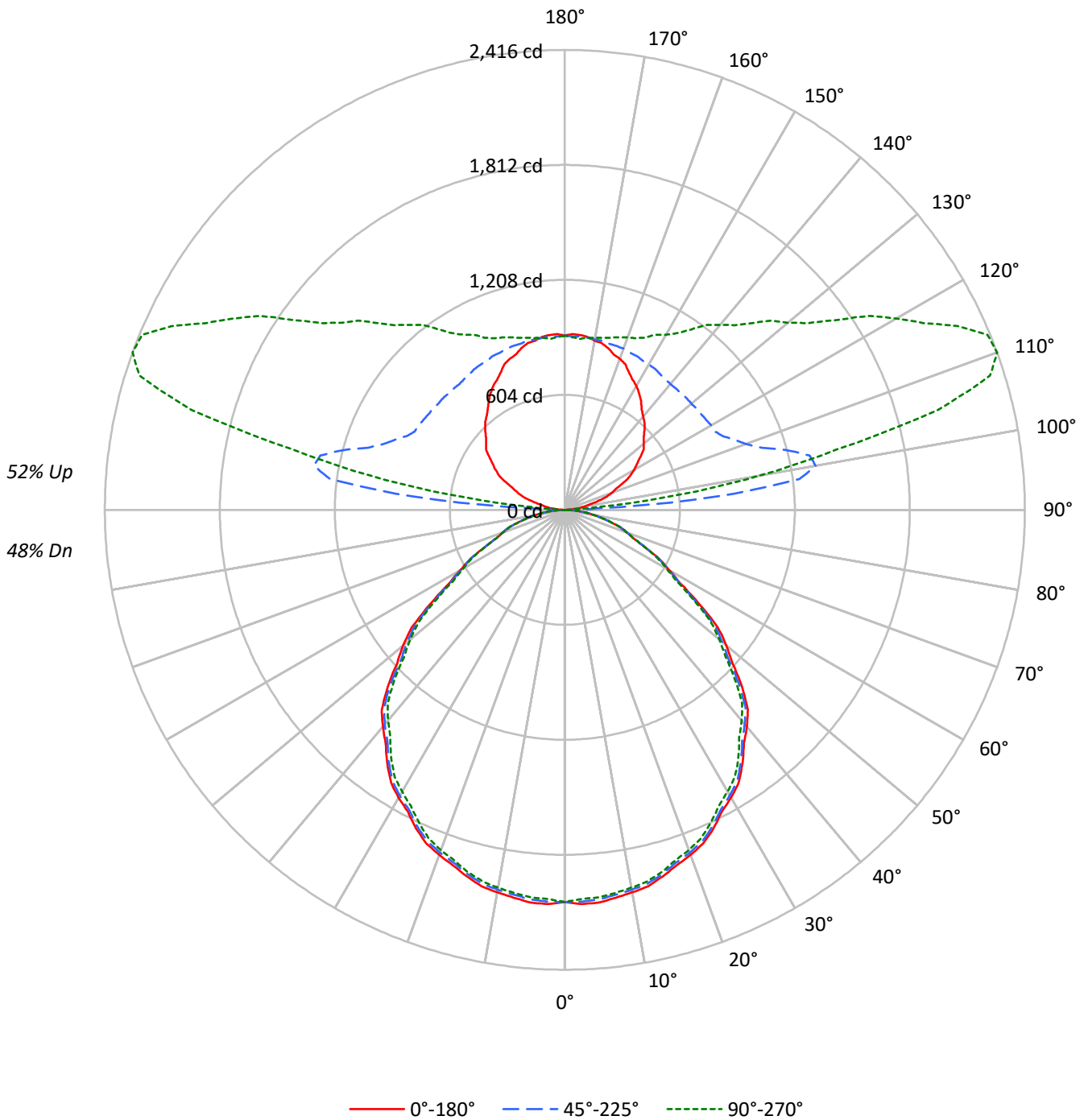
Lumens per Lamp: N/A
Luminaire Lumens: 10832.0 lumens
Efficiency: N/A
Efficacy: 111.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	98	93	90	86	90	86	83	80	72	70	68	60	58	57	48	47	46				41	
2	89	82	76	71	82	75	70	66	64	60	57	53	50	48	43	41	39				34	
3	81	72	65	59	75	67	60	55	56	52	48	47	43	41	38	36	34				29	
4	75	64	56	50	68	59	52	47	50	45	41	42	38	35	34	31	29				25	
5	68	57	49	43	63	53	46	41	45	40	35	38	34	30	31	28	26				22	
6	63	51	43	38	58	48	40	35	41	35	31	34	30	27	28	25	23				20	
7	58	46	38	33	54	43	36	31	37	31	27	31	27	24	26	22	20				17	
8	54	42	34	29	50	39	32	27	34	28	24	28	24	21	23	20	18				16	
9	50	38	31	26	46	36	29	25	31	25	22	26	22	19	22	19	16				14	
10	47	35	28	23	43	33	26	22	28	23	20	24	20	17	20	17	15				13	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19005	19005	19005
5°	19176	19029	18929
10°	19116	18983	18882
15°	19032	18913	18811
20°	18936	18814	18674
25°	18802	18676	18459
30°	18600	18467	18203
35°	18325	18165	17905
40°	17907	17714	17394
45°	17177	16876	16529
50°	15891	15509	15203
55°	13870	13557	13270
60°	11688	11590	11361
65°	10110	10149	10071
70°	9285	9334	9334
75°	8919	8919	8980
80°	8389	8485	8389
85°	6764	7516	7516



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	1.8
10°-20°	557.3	5.1
20°-30°	840.6	7.8
30°-40°	1001.6	9.2
40°-50°	987.5	9.1
50°-60°	754.7	7.0
60°-70°	467.0	4.3
70°-80°	265.3	2.4
80°-90°	80.7	0.7
90°-100°	416.8	3.8
100°-110°	1186.1	10.9
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°	1592.8	14.7
0°-40°	2594.4	24.0
0°-60°	4336.5	40.0
0°-90°	5149.5	47.5
90°-120°	2739.4	25.3
90°-150°	4925.9	45.5
90°-180°	5682.0	52.5
0°-180°	10832.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2060	2060	2060	2060	2060	
5°	2070	2048	2055	2047	2044	196
15°	1992	1972	1980	1973	1969	562
25°	1847	1824	1835	1815	1813	850
35°	1627	1608	1613	1592	1590	1015
45°	1316	1299	1293	1270	1267	1009
55°	862	848	843	828	825	773
65°	463	460	465	461	461	469
75°	250	250	250	252	252	264
85°	64	67	71	71	71	74
90°	0	0	0	0	0	4
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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CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2059.9	2059.9	2059.9	2059.9	2059.9
2.5°	2072.7	2054.6	2059.9	2055.4	2045.7
5°	2070.5	2048.0	2054.6	2047.4	2043.9
7.5°	2054.6	2032.4	2039.0	2031.8	2029.7
10°	2040.4	2019.6	2026.2	2019.0	2015.5
12.5°	2024.8	2002.6	2010.6	2002.0	1998.5
15°	1992.5	1971.7	1980.1	1972.9	1969.4
17.5°	1957.0	1934.8	1943.1	1934.9	1930.4
20°	1928.6	1907.8	1916.2	1903.7	1902.0
22.5°	1897.4	1876.6	1885.0	1868.3	1867.9
25°	1847.0	1824.4	1834.6	1815.0	1813.3
27.5°	1787.0	1766.2	1774.6	1754.7	1752.6
30°	1745.9	1725.0	1733.4	1712.1	1708.6
32.5°	1699.0	1679.6	1686.6	1665.3	1663.2
35°	1627.0	1607.9	1612.8	1591.5	1589.7
37.5°	1545.0	1527.7	1530.5	1507.0	1505.3
40°	1486.8	1469.5	1470.8	1446.0	1444.2
42.5°	1422.9	1405.6	1404.1	1379.3	1377.5
45°	1316.5	1299.1	1293.4	1270.3	1266.8
47.5°	1195.1	1177.8	1167.1	1148.2	1145.8
50°	1107.1	1089.8	1080.5	1064.4	1059.2
52.5°	1012.0	994.7	986.8	972.2	967.0
55°	862.3	848.4	842.8	828.5	825.0
57.5°	720.0	710.6	709.0	695.1	693.7
60°	633.4	628.2	628.1	615.7	615.7
62.5°	559.6	555.8	558.5	550.3	548.9
65°	463.1	459.6	464.9	461.3	461.3
67.5°	386.8	386.8	390.0	388.6	388.6
70°	344.2	344.2	346.0	346.0	346.0
72.5°	305.9	304.5	309.1	309.0	307.7
75°	250.2	250.2	250.2	251.9	251.9
77.5°	194.8	195.2	196.6	196.2	194.8
80°	157.9	159.6	159.7	157.9	157.9
82.5°	121.0	122.7	122.8	122.4	121.0
85°	63.9	67.3	71.0	71.0	71.0
87.5°	18.5	24.0	28.4	28.4	27.0
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)