

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: P562076

Luminaire Tested: **SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562076
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

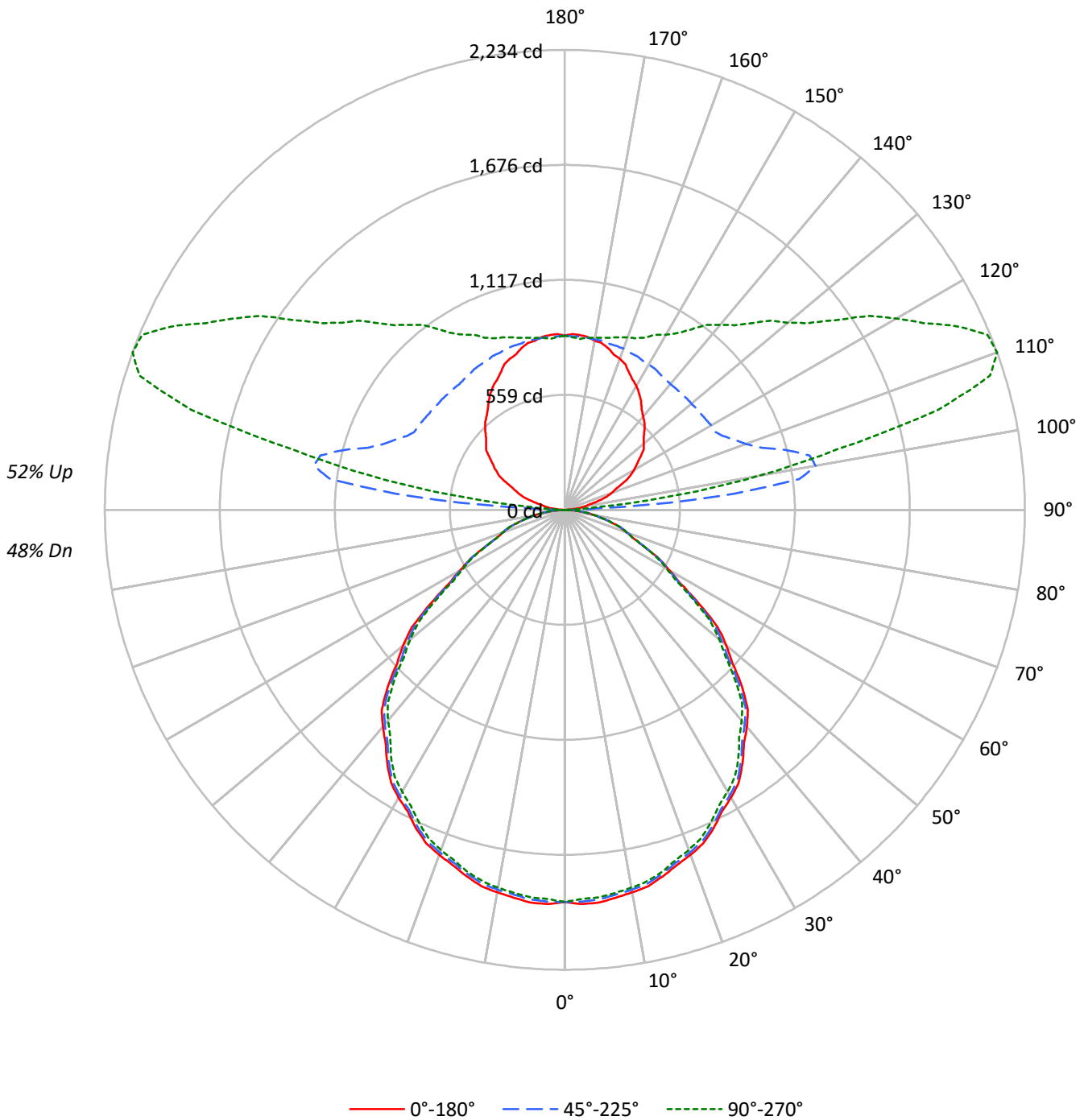
Lumens per Lamp: N/A
Luminaire Lumens: 10015.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 97
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°	17572	17572	17572
5°	17731	17594	17503
10°	17675	17552	17459
15°	17597	17487	17394
20°	17508	17396	17266
25°	17385	17268	17068
30°	17198	17075	16830
35°	16944	16796	16556
40°	16558	16380	16083
45°	15883	15604	15283
50°	14694	14341	14058
55°	12825	12534	12270
60°	10808	10715	10505
65°	9348	9383	9311
70°	8586	8629	8629
75°	8245	8245	8306
80°	7757	7842	7757
85°	6256	6944	6944



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	1.8
10°-20°	515.3	5.1
20°-30°	777.3	7.8
30°-40°	926.1	9.2
40°-50°	913.1	9.1
50°-60°	697.8	7.0
60°-70°	431.8	4.3
70°-80°	245.3	2.4
80°-90°	74.6	0.7
90°-100°	385.4	3.8
100°-110°	1096.7	10.9
110°-120°	1050.8	10.5
120°-130°	831.6	8.3
130°-140°	667.5	6.7
140°-150°	522.6	5.2
150°-160°	382.4	3.8
160°-170°	236.8	2.4
170°-180°	80.4	0.8
0°-30°	1472.7	14.7
0°-40°	2398.8	24.0
0°-60°	4009.7	40.0
0°-90°	4761.4	47.5
90°-120°	2532.9	25.3
90°-150°	4554.7	45.5
90°-180°	5254.0	52.5
0°-180°	10015.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1905	1905	1905	1905	1905	
5°	1914	1894	1900	1893	1890	182
15°	1842	1823	1831	1824	1821	520
25°	1708	1687	1696	1678	1677	786
35°	1504	1487	1491	1472	1470	939
45°	1217	1201	1196	1174	1171	933
55°	797	784	779	766	763	714
65°	428	425	430	426	426	434
75°	231	231	231	233	233	244
85°	59	62	66	66	66	69
90°	0	0	0	0	0	4
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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CATALOG NUMBER: SQ4-PR1-125U-125D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1904.6	1904.6	1904.6	1904.6	1904.6
2.5°	1916.5	1899.8	1904.6	1900.5	1891.5
5°	1914.5	1893.6	1899.7	1893.1	1889.9
7.5°	1899.7	1879.2	1885.3	1878.7	1876.8
10°	1886.6	1867.4	1873.5	1866.8	1863.6
12.5°	1872.2	1851.6	1859.0	1851.1	1847.9
15°	1842.3	1823.1	1830.8	1824.2	1821.0
17.5°	1809.5	1789.0	1796.7	1789.1	1784.9
20°	1783.2	1764.0	1771.8	1760.2	1758.6
22.5°	1754.4	1735.1	1742.9	1727.5	1727.1
25°	1707.8	1686.9	1696.3	1678.2	1676.6
27.5°	1652.3	1633.1	1640.9	1622.4	1620.5
30°	1614.3	1595.0	1602.8	1583.0	1579.8
32.5°	1571.0	1553.0	1559.5	1539.8	1537.8
35°	1504.4	1486.7	1491.2	1471.5	1469.9
37.5°	1428.6	1412.5	1415.1	1393.4	1391.8
40°	1374.8	1358.7	1360.0	1337.0	1335.4
42.5°	1315.7	1299.7	1298.3	1275.3	1273.7
45°	1217.3	1201.2	1195.9	1174.5	1171.3
47.5°	1105.1	1089.0	1079.1	1061.7	1059.4
50°	1023.7	1007.6	999.1	984.2	979.4
52.5°	935.8	919.7	912.5	898.9	894.1
55°	797.3	784.5	779.2	766.1	762.8
57.5°	665.7	657.1	655.6	642.7	641.4
60°	585.7	580.9	580.7	569.3	569.3
62.5°	517.4	513.9	516.4	508.9	507.6
65°	428.2	425.0	429.8	426.5	426.5
67.5°	357.6	357.6	360.6	359.3	359.3
70°	318.3	318.3	319.9	319.9	319.9
72.5°	282.8	281.5	285.8	285.7	284.5
75°	231.3	231.3	231.3	233.0	233.0
77.5°	180.1	180.5	181.8	181.4	180.1
80°	146.0	147.6	147.6	146.0	146.0
82.5°	111.9	113.5	113.5	113.2	111.9
85°	59.1	62.3	65.6	65.6	65.6
87.5°	17.1	22.2	26.2	26.2	24.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)