

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: P561868

Luminaire Tested: **SQ4-PR1-050U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561868
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-PR1-050U-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

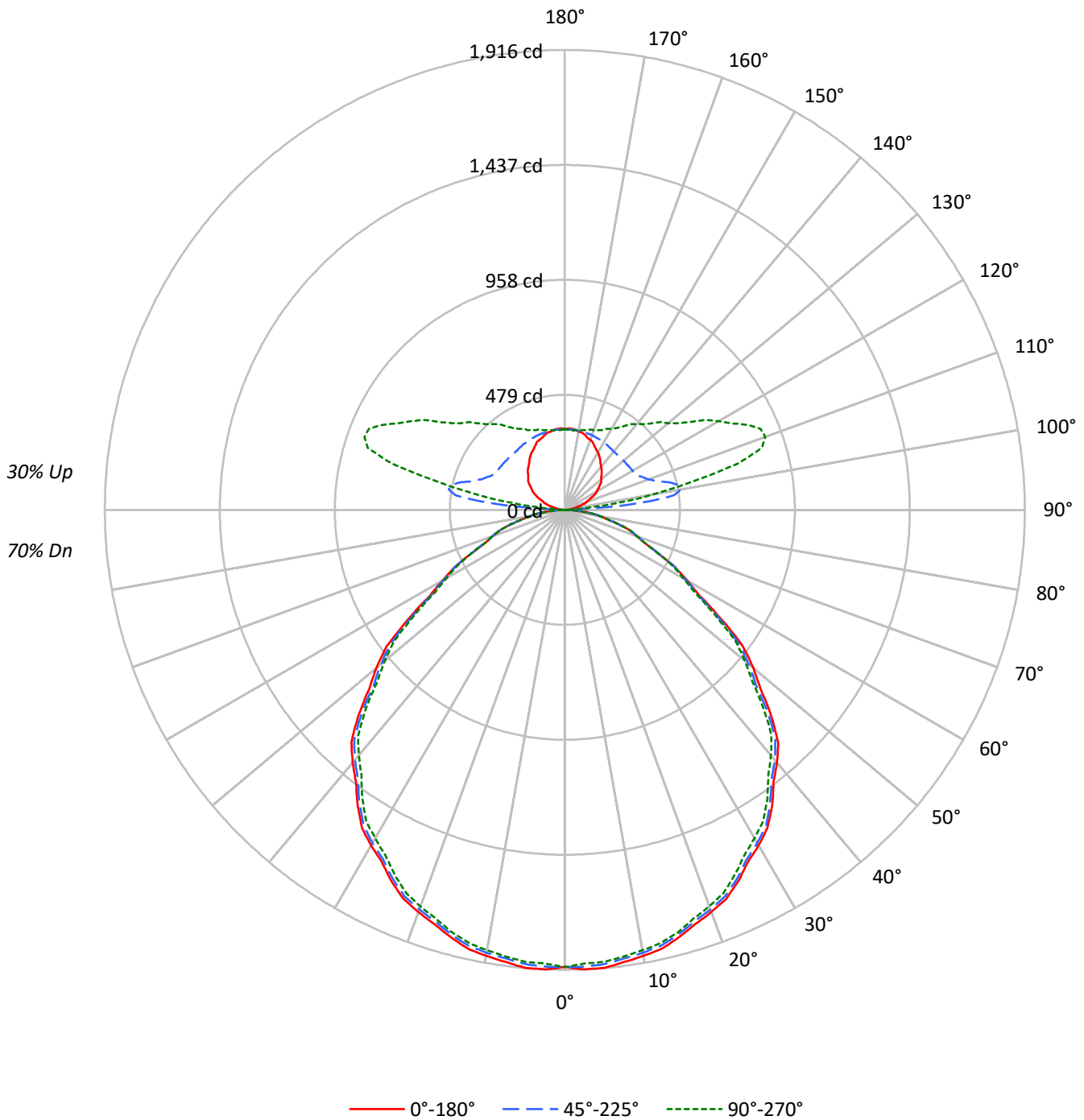
Lumens per Lamp: N/A
Luminaire Lumens: 6849.7 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.4
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70	
1	103	98	94	91	97	93	90	87	83	81	78	74	72	71	66	65	63	63	63	63	59	
2	94	86	80	75	88	82	76	72	74	69	66	66	63	60	59	56	54	54	54	54	50	
3	86	76	69	63	81	72	66	60	65	60	56	59	54	51	52	49	46	46	46	46	43	
4	79	68	60	54	74	64	57	52	58	52	48	52	48	44	47	43	40	40	40	40	37	
5	72	61	52	46	68	58	50	45	52	46	42	47	42	38	43	39	35	35	35	35	33	
6	67	55	46	40	63	52	45	39	47	41	36	43	38	34	39	34	31	31	31	31	29	
7	62	50	41	36	59	47	40	35	43	37	32	39	34	30	35	31	28	28	28	28	26	
8	58	45	37	32	54	43	36	31	39	33	29	36	31	27	33	28	25	25	25	25	23	
9	54	41	34	28	51	40	32	28	36	30	26	33	28	24	30	26	23	23	23	23	21	
10	50	38	31	26	48	36	30	25	33	28	24	31	26	22	28	24	21	21	21	21	19	

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	2.6
10°-20°	515.3	7.5
20°-30°	777.3	11.3
30°-40°	926.1	13.5
40°-50°	913.1	13.3
50°-60°	697.8	10.2
60°-70°	431.8	6.3
70°-80°	245.3	3.6
80°-90°	74.6	1.1
90°-100°	153.2	2.2
100°-110°	435.9	6.4
110°-120°	417.6	6.1
120°-130°	330.5	4.8
130°-140°	265.3	3.9
140°-150°	207.7	3.0
150°-160°	152.0	2.2
160°-170°	94.1	1.4
170°-180°	31.9	0.5
0°-30°	1472.7	21.5
0°-40°	2398.8	35.0
0°-60°	4009.7	58.5
0°-90°	4761.4	69.5
90°-120°	1006.7	14.7
90°-150°	1810.2	26.4
90°-180°	2088.0	30.5
0°-180°	6849.7	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	3
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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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°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)