

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: P561816

Luminaire Tested: **SQ4-PR1-025U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561816
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-PR1-025U-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 250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

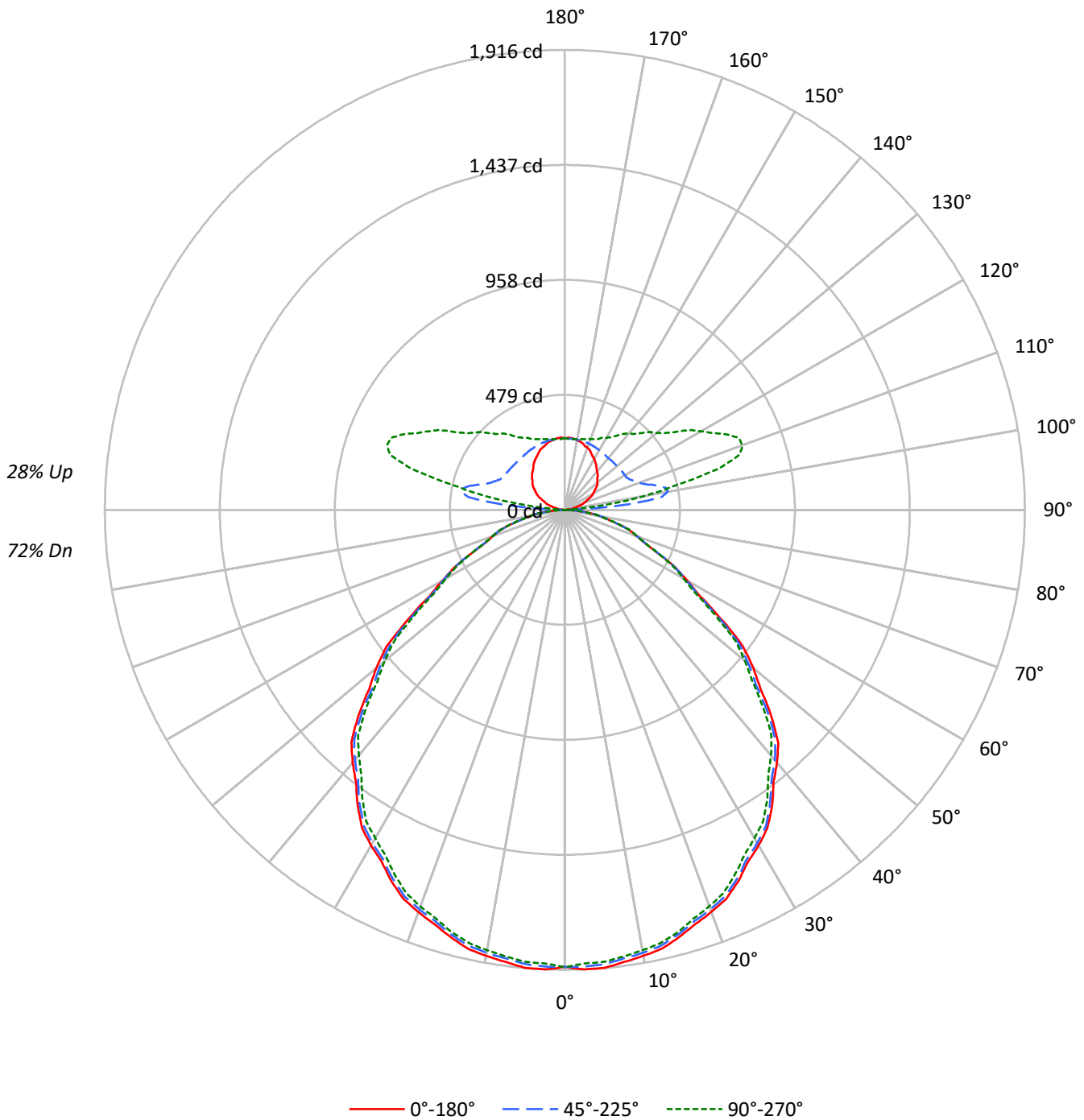
Lumens per Lamp: N/A
Luminaire Lumens: 6614.3 lumens
Efficiency: N/A
Efficacy: 95.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 69.6
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	107	107	107	107	96	96	96	86	86	86	76	76	76	72	72	72	72	
1	103	99	95	91	98	94	90	87	85	82	80	76	74	72	68	67	65	61	61	61	61	
2	94	87	81	75	89	83	77	72	75	70	67	67	64	61	60	58	56	52	52	52	52	
3	86	77	69	63	82	73	66	61	66	61	56	60	56	52	54	51	48	45	45	45	45	
4	79	68	60	54	75	65	58	52	59	53	49	54	49	45	48	45	42	39	39	39	39	
5	73	61	53	47	69	58	51	45	53	47	42	48	43	39	44	40	36	34	34	34	34	
6	67	55	47	41	64	53	45	40	48	42	37	44	39	35	40	36	32	30	30	30	30	
7	62	50	42	36	59	48	40	35	44	37	33	40	35	31	36	32	29	26	26	26	26	
8	58	45	38	32	55	44	36	31	40	34	29	37	31	28	34	29	26	24	24	24	24	
9	54	42	34	29	51	40	33	28	37	31	26	34	29	25	31	27	23	21	21	21	21	
10	51	38	31	26	48	37	30	25	34	28	24	31	26	23	29	24	21	19	19	19	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	2.7
10°-20°	515.3	7.8
20°-30°	777.3	11.8
30°-40°	926.1	14.0
40°-50°	913.1	13.8
50°-60°	697.8	10.6
60°-70°	431.8	6.5
70°-80°	245.3	3.7
80°-90°	74.6	1.1
90°-100°	135.9	2.1
100°-110°	386.8	5.8
110°-120°	370.6	5.6
120°-130°	293.3	4.4
130°-140°	235.4	3.6
140°-150°	184.3	2.8
150°-160°	134.8	2.0
160°-170°	83.5	1.3
170°-180°	28.3	0.4
0°-30°	1472.7	22.3
0°-40°	2398.8	36.3
0°-60°	4009.7	60.6
0°-90°	4761.4	72.0
90°-120°	893.2	13.5
90°-150°	1606.2	24.3
90°-180°	1853.0	28.0
0°-180°	6614.3	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°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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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°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)