

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: P561920

Luminaire Tested: **SQ4-PR1-075U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561920
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-PR1-075U-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 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

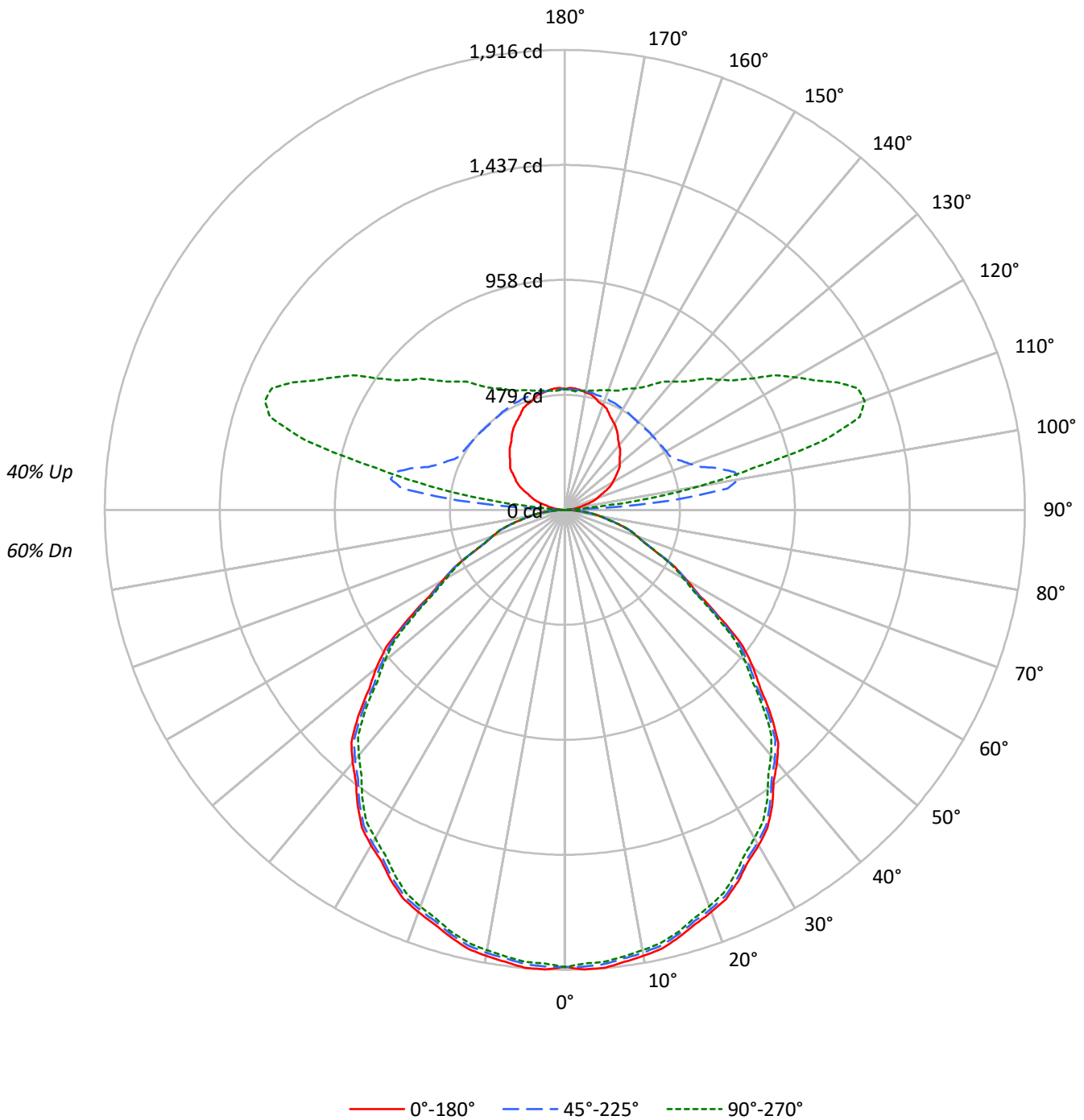
Lumens per Lamp: N/A
Luminaire Lumens: 7887.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 79.2
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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	66	66	66	60
1	100	96	92	89	94	90	87	84	79	76	74	68	66	65	59	57	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	75	67	61	78	70	64	58	62	57	52	54	50	47	46	44	41	37
4	77	66	58	52	72	62	55	50	55	49	45	48	44	40	42	38	36	32
5	71	59	51	45	66	56	48	43	49	43	39	43	39	35	38	34	31	28
6	65	53	45	39	61	50	43	38	45	39	34	39	34	31	34	31	28	25
7	60	48	40	35	56	45	38	33	40	35	30	36	31	27	31	28	25	22
8	56	44	36	31	53	41	34	29	37	31	27	33	28	25	29	25	22	20
9	52	40	33	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	37	30	25	46	35	28	24	31	26	22	28	23	20	25	21	18	16

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	2.3
10°-20°	515.3	6.5
20°-30°	777.3	9.9
30°-40°	926.1	11.7
40°-50°	913.1	11.6
50°-60°	697.8	8.8
60°-70°	431.8	5.5
70°-80°	245.3	3.1
80°-90°	74.6	0.9
90°-100°	229.3	2.9
100°-110°	652.5	8.3
110°-120°	625.2	7.9
120°-130°	494.8	6.3
130°-140°	397.1	5.0
140°-150°	310.9	3.9
150°-160°	227.5	2.9
160°-170°	140.9	1.8
170°-180°	47.8	0.6
0°-30°	1472.7	18.7
0°-40°	2398.8	30.4
0°-60°	4009.7	50.8
0°-90°	4761.4	60.4
90°-120°	1507.0	19.1
90°-150°	2709.8	34.4
90°-180°	3126.0	39.6
0°-180°	7887.4	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°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	



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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°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)