

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: P563613

Luminaire Tested: **SQ4-PP3-100U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563613
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

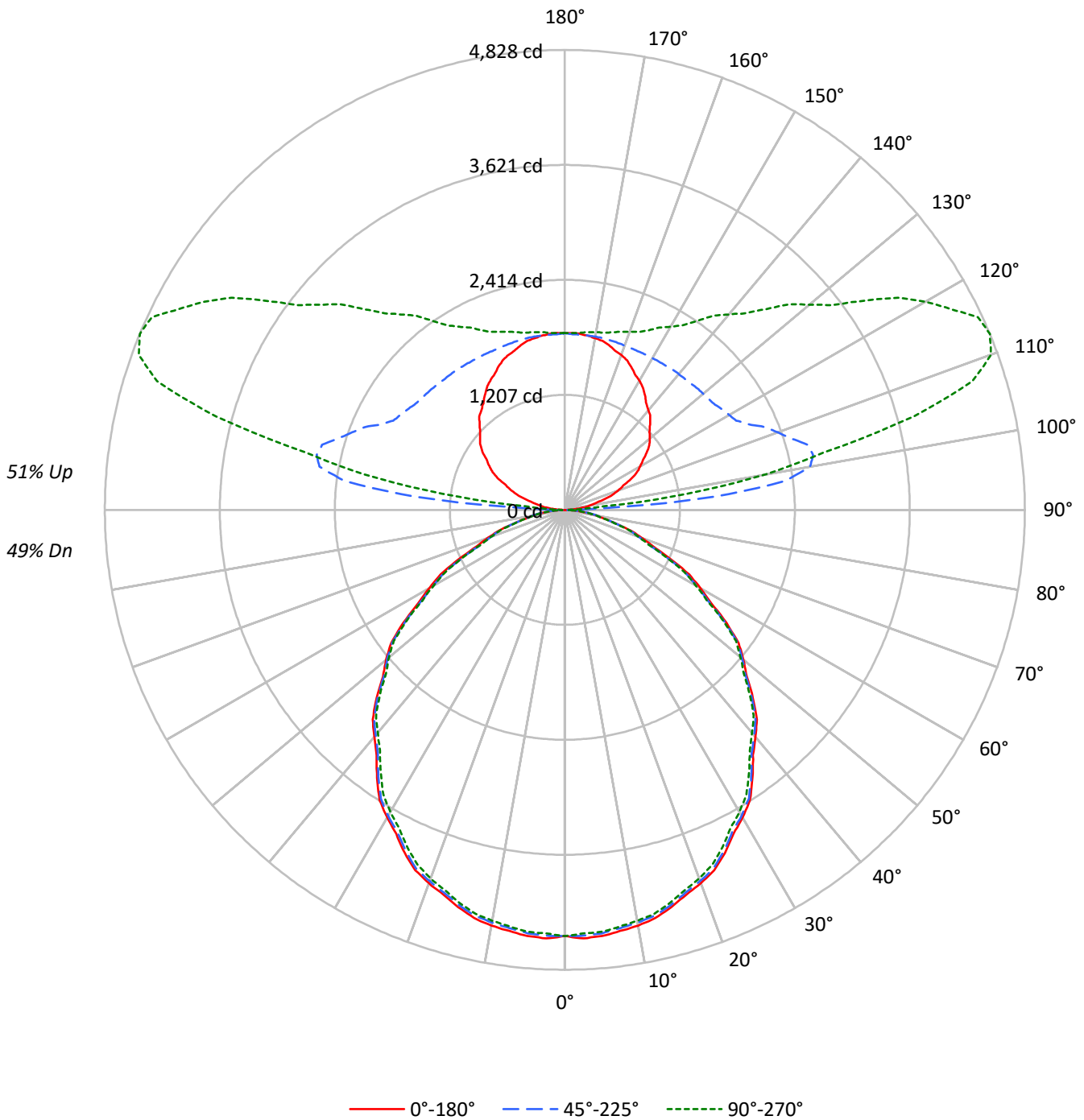
Lumens per Lamp: N/A
Luminaire Lumens: 23505.3 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 182.2
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	107	107	107	107	98	98	98	98	83	83	83	68	68	68	55	55	55	49
1	98	93	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	70	66	64	60	57	53	50	48	43	41	40	35
3	81	72	65	59	75	67	60	55	57	52	48	47	44	41	38	36	34	30
4	74	64	56	50	68	59	52	47	50	45	41	42	38	35	34	32	29	26
5	68	57	49	43	63	53	46	40	45	40	35	38	34	30	31	28	26	22
6	63	51	43	37	58	47	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	24	20	18	16
9	50	38	31	26	46	36	29	24	31	25	22	26	22	19	22	19	16	14
10	47	35	28	23	43	33	26	22	28	23	19	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13761	13761	13761
5°	13862	13777	13729
10°	13839	13741	13680
15°	13747	13672	13597
20°	13656	13579	13476
25°	13494	13401	13268
30°	13244	13174	13007
35°	12898	12809	12647
40°	12485	12406	12265
45°	12144	12059	11940
50°	11708	11633	11521
55°	11102	10955	10871
60°	10107	9817	9769
65°	8904	8533	8505
70°	7687	7370	7370
75°	6617	6523	6431
80°	5834	5903	5765
85°	4566	4982	4982



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.1	1.8
10°-20°	1208.1	5.1
20°-30°	1809.6	7.7
30°-40°	2122.6	9.0
40°-50°	2129.2	9.1
50°-60°	1816.4	7.7
60°-70°	1184.6	5.0
70°-80°	594.3	2.5
80°-90°	168.3	0.7
90°-100°	868.4	3.7
100°-110°	2397.4	10.2
110°-120°	2472.6	10.5
120°-130°	1986.9	8.5
130°-140°	1561.5	6.6
140°-150°	1197.6	5.1
150°-160°	860.7	3.7
160°-170°	526.4	2.2
170°-180°	177.5	0.8
0°-30°	3440.9	14.6
0°-40°	5563.5	23.7
0°-60°	9509.1	40.5
0°-90°	11456.3	48.7
90°-120°	5738.4	24.4
90°-150°	10484.4	44.6
90°-180°	12049.0	51.3
0°-180°	23505.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4475	4475	4475	4475	4475	
5°	4490	4448	4463	4447	4447	426
15°	4318	4276	4294	4278	4271	1218
25°	3977	3930	3949	3914	3910	1829
35°	3435	3401	3412	3372	3369	2146
45°	2792	2773	2773	2745	2745	2150
55°	2071	2063	2043	2031	2028	1840
65°	1224	1200	1173	1165	1169	1221
75°	557	557	549	545	541	604
85°	129	141	141	141	141	152
90°	6	12	24	27	30	14
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4474.6	4474.6	4474.6	4474.6	4474.6
2.5°	4502.8	4466.0	4474.6	4467.9	4449.5
5°	4490.3	4448.1	4462.8	4447.2	4447.2
7.5°	4459.7	4413.7	4428.3	4412.6	4411.9
10°	4431.5	4385.4	4400.1	4384.3	4380.5
12.5°	4390.7	4344.7	4362.4	4343.6	4342.8
15°	4317.7	4275.6	4294.2	4278.3	4270.7
17.5°	4235.4	4189.4	4211.9	4189.8	4186.8
20°	4172.6	4126.6	4149.1	4117.7	4117.7
22.5°	4097.3	4051.3	4076.9	4036.2	4036.2
25°	3976.6	3930.5	3949.1	3913.7	3909.9
27.5°	3833.0	3787.8	3807.1	3767.1	3766.4
30°	3729.5	3687.3	3709.9	3666.7	3662.8
32.5°	3616.5	3577.4	3593.8	3550.6	3546.7
35°	3435.4	3400.9	3411.8	3372.5	3368.7
37.5°	3244.8	3209.5	3222.0	3188.3	3186.7
40°	3109.9	3086.9	3090.3	3062.6	3055.0
42.5°	2984.4	2958.3	2961.6	2934.1	2932.6
45°	2792.2	2773.0	2772.6	2745.2	2745.2
47.5°	2588.3	2573.7	2569.5	2546.7	2545.9
50°	2447.1	2435.6	2431.4	2411.7	2407.9
52.5°	2299.7	2294.3	2280.8	2264.3	2263.6
55°	2070.6	2063.0	2043.2	2031.3	2027.5
57.5°	1822.0	1806.7	1784.4	1767.2	1770.2
60°	1643.2	1627.8	1596.1	1588.3	1588.3
62.5°	1470.6	1452.2	1420.4	1409.6	1415.7
65°	1223.6	1200.5	1172.6	1164.8	1168.7
67.5°	999.2	978.5	948.3	948.2	945.1
70°	854.9	843.4	819.6	819.6	819.6
72.5°	726.3	720.9	703.5	703.5	700.4
75°	556.9	556.9	549.0	545.0	541.2
77.5°	417.3	418.8	414.9	410.8	403.9
80°	329.4	337.1	333.3	329.3	325.5
82.5°	247.8	255.5	254.9	247.8	247.1
85°	129.4	140.9	141.2	141.2	141.2
87.5°	35.7	49.1	54.9	55.6	59.3
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)