

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: P564285

Luminaire Tested: **SQ4-PR1-100U-100D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564285
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PR1-100U-100D-835-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

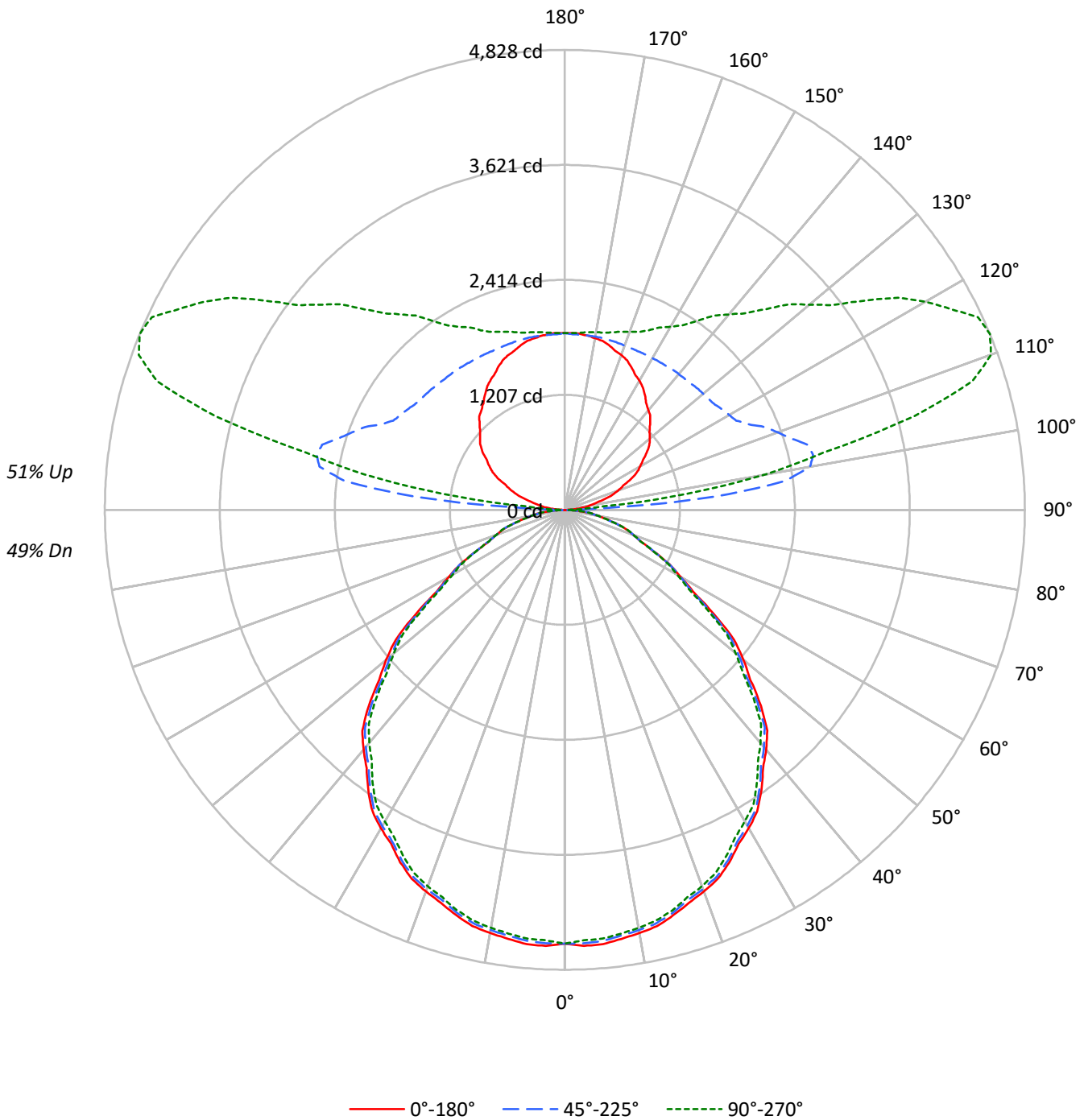
Lumens per Lamp: N/A
Luminaire Lumens: 23437.5 lumens
Efficiency: N/A
Efficacy: 128.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: General Diffuse

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	94	90	86	90	86	83	80	73	70	68	60	59	57	49	48	47	41
2	89	82	76	71	82	76	71	66	64	60	57	53	51	48	43	42	40	35
3	82	72	65	59	75	67	61	56	57	52	48	47	44	41	39	36	34	30
4	75	64	56	50	69	59	53	47	51	45	41	42	39	35	35	32	30	26
5	69	57	49	43	63	53	46	41	45	40	36	38	34	31	31	28	26	23
6	63	51	43	38	58	48	41	36	41	35	31	34	30	27	28	25	23	20
7	59	46	39	33	54	43	36	31	37	32	28	31	27	24	26	23	20	18
8	54	42	34	29	50	39	32	28	34	28	25	29	24	21	24	21	18	16
9	51	38	31	26	47	36	29	25	31	26	22	26	22	19	22	19	17	14
10	47	35	28	23	44	33	27	22	29	23	20	24	20	17	20	17	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14006	14006	14006
5°	14132	14023	13950
10°	14087	13989	13915
15°	14025	13938	13863
20°	13954	13865	13762
25°	13856	13763	13604
30°	13707	13609	13414
35°	13504	13387	13195
40°	13197	13055	12819
45°	12659	12437	12181
50°	11711	11429	11204
55°	10222	9990	9780
60°	8614	8541	8372
65°	7450	7479	7422
70°	6843	6878	6878
75°	6572	6572	6619
80°	6183	6252	6183
85°	4982	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	430.7	1.8
10°-20°	1232.2	5.3
20°-30°	1858.5	7.9
30°-40°	2214.4	9.4
40°-50°	2183.2	9.3
50°-60°	1668.5	7.1
60°-70°	1032.5	4.4
70°-80°	586.5	2.5
80°-90°	182.2	0.8
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	6.7
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°	3521.3	15.0
0°-40°	5735.7	24.5
0°-60°	9587.4	40.9
0°-90°	11388.6	48.6
90°-120°	5738.4	24.5
90°-150°	10484.4	44.7
90°-180°	12049.0	51.4
0°-180°	23437.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4554	4554	4554	4554	4554	
5°	4578	4528	4542	4526	4519	434
15°	4405	4359	4378	4362	4354	1243
25°	4083	4034	4056	4013	4009	1879
35°	3597	3555	3566	3518	3515	2245
45°	2910	2872	2860	2808	2801	2230
55°	1906	1876	1863	1832	1824	1708
65°	1024	1016	1028	1020	1020	1037
75°	553	553	553	557	557	584
85°	141	149	157	157	157	164
90°	6	12	24	27	30	15
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°	4554.1	4554.1	4554.1	4554.1	4554.1
2.5°	4582.3	4542.5	4554.1	4544.2	4522.7
5°	4577.6	4527.8	4542.3	4526.5	4518.8
7.5°	4542.3	4493.2	4507.8	4492.0	4487.4
10°	4511.0	4464.9	4479.6	4463.7	4456.0
12.5°	4476.4	4427.3	4445.1	4426.1	4418.4
15°	4405.0	4359.0	4377.6	4361.7	4354.1
17.5°	4326.6	4277.5	4296.0	4277.7	4267.8
20°	4263.8	4217.8	4236.4	4208.8	4205.0
22.5°	4194.8	4148.8	4167.3	4130.4	4129.7
25°	4083.4	4033.5	4055.9	4012.7	4008.9
27.5°	3950.8	3904.8	3923.4	3879.3	3874.7
30°	3859.8	3813.8	3832.4	3785.1	3777.4
32.5°	3756.3	3713.3	3728.8	3681.6	3677.0
35°	3597.0	3554.8	3565.6	3518.5	3514.6
37.5°	3415.8	3377.4	3383.6	3331.7	3327.9
40°	3287.1	3248.8	3251.8	3196.8	3193.0
42.5°	3145.9	3107.5	3104.3	3049.3	3045.5
45°	2910.5	2872.2	2859.6	2808.4	2800.7
47.5°	2642.2	2603.9	2580.3	2538.6	2533.2
50°	2447.7	2409.3	2388.8	2353.3	2341.8
52.5°	2237.4	2199.1	2181.7	2149.3	2137.8
55°	1906.4	1875.7	1863.2	1831.7	1824.0
57.5°	1591.8	1571.1	1567.5	1536.8	1533.7
60°	1400.4	1388.9	1388.6	1361.1	1361.1
62.5°	1237.2	1228.7	1234.8	1216.7	1213.6
65°	1023.8	1016.1	1027.7	1019.9	1019.9
67.5°	855.1	855.1	862.2	859.0	859.0
70°	761.0	761.0	764.9	764.9	764.9
72.5°	676.3	673.2	683.3	683.2	680.2
75°	553.1	553.1	553.1	557.0	557.0
77.5°	430.7	431.5	434.6	433.8	430.7
80°	349.1	352.9	353.0	349.1	349.1
82.5°	267.5	271.4	271.4	270.6	267.5
85°	141.2	148.9	156.9	156.9	156.9
87.5°	42.0	55.4	67.5	68.0	65.6
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)