

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: P564291

Luminaire Tested: **SQ4-PR1-100U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564291
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-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

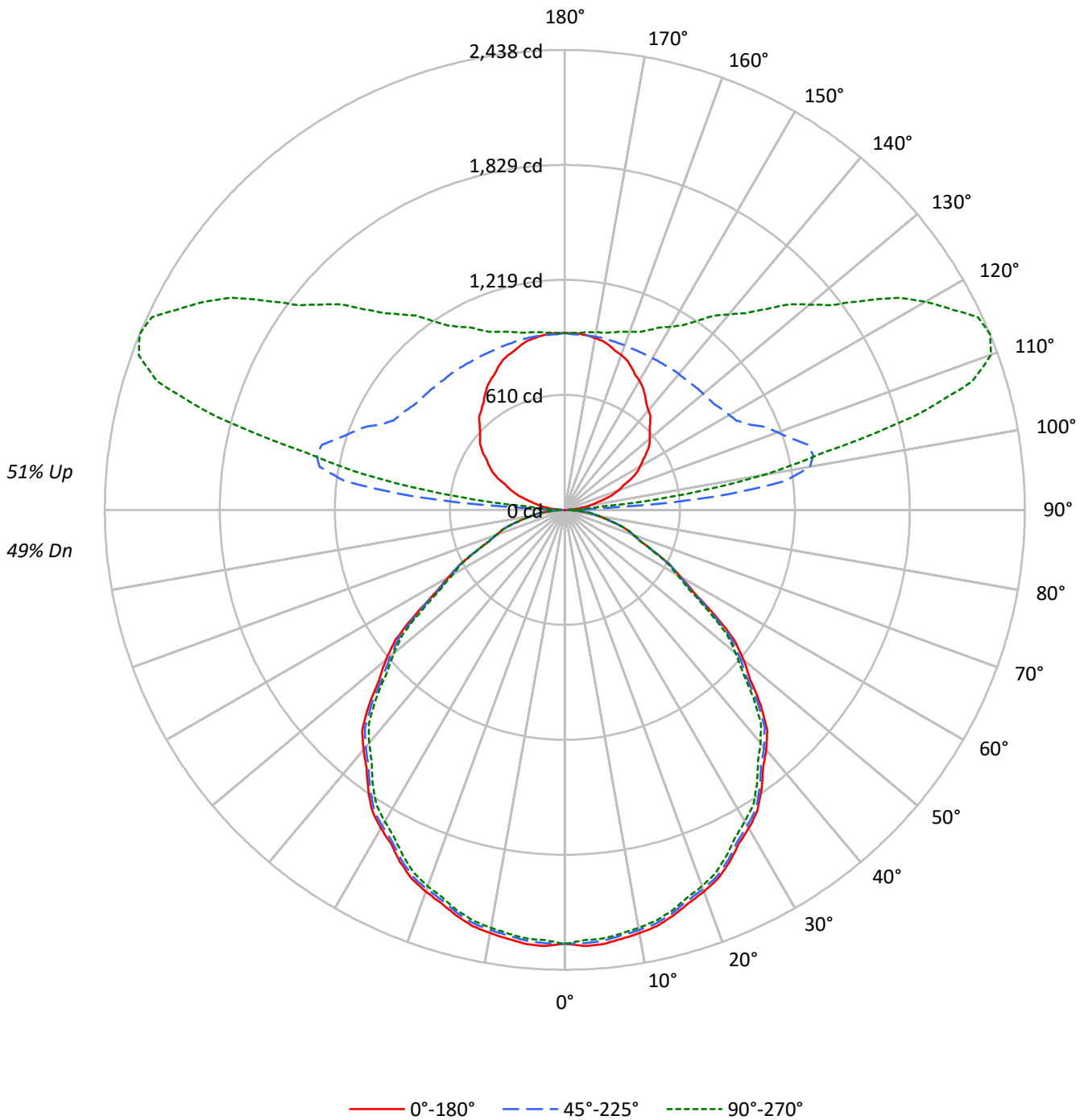
Lumens per Lamp: N/A
Luminaire Lumens: 11836.7 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 92.9
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	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°	14147	14147	14147
5°	14274	14164	14090
10°	14229	14130	14055
15°	14166	14078	14002
20°	14095	14004	13901
25°	13995	13902	13740
30°	13845	13747	13549
35°	13640	13521	13328
40°	13329	13187	12948
45°	12786	12562	12303
50°	11829	11544	11317
55°	10325	10091	9879
60°	8700	8627	8456
65°	7524	7554	7497
70°	6911	6947	6947
75°	6638	6638	6685
80°	6245	6316	6245
85°	5032	5589	5589



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	217.5	1.8
10°-20°	622.3	5.3
20°-30°	938.6	7.9
30°-40°	1118.3	9.4
40°-50°	1102.6	9.3
50°-60°	842.6	7.1
60°-70°	521.5	4.4
70°-80°	296.2	2.5
80°-90°	92.0	0.8
90°-100°	438.6	3.7
100°-110°	1210.8	10.2
110°-120°	1248.7	10.5
120°-130°	1003.5	8.5
130°-140°	788.6	6.7
140°-150°	604.8	5.1
150°-160°	434.7	3.7
160°-170°	265.8	2.2
170°-180°	89.6	0.8
0°-30°	1778.4	15.0
0°-40°	2896.7	24.5
0°-60°	4841.9	40.9
0°-90°	5751.6	48.6
90°-120°	2898.1	24.5
90°-150°	5295.0	44.7
90°-180°	6085.0	51.4
0°-180°	11836.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2312	2287	2294	2286	2282	219
15°	2225	2201	2211	2203	2199	628
25°	2062	2037	2048	2026	2025	949
35°	1817	1795	1801	1777	1775	1134
45°	1470	1450	1444	1418	1414	1126
55°	963	947	941	925	921	863
65°	517	513	519	515	515	524
75°	279	279	279	281	281	295
85°	71	75	79	79	79	83
90°	3	6	12	14	15	7
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2300.0	2300.0	2300.0	2300.0	2300.0
2.5°	2314.2	2294.1	2300.0	2295.0	2284.1
5°	2311.9	2286.7	2294.0	2286.0	2282.1
7.5°	2294.0	2269.2	2276.6	2268.6	2266.3
10°	2278.2	2254.9	2262.3	2254.3	2250.4
12.5°	2260.7	2235.9	2244.9	2235.3	2231.4
15°	2224.7	2201.4	2210.8	2202.8	2198.9
17.5°	2185.1	2160.3	2169.6	2160.4	2155.4
20°	2153.4	2130.1	2139.5	2125.6	2123.7
22.5°	2118.5	2095.3	2104.6	2086.0	2085.6
25°	2062.2	2037.1	2048.4	2026.5	2024.6
27.5°	1995.3	1972.0	1981.4	1959.2	1956.9
30°	1949.3	1926.1	1935.5	1911.6	1907.7
32.5°	1897.0	1875.3	1883.2	1859.3	1857.0
35°	1816.6	1795.3	1800.7	1776.9	1775.0
37.5°	1725.1	1705.7	1708.8	1682.6	1680.7
40°	1660.1	1640.7	1642.3	1614.5	1612.6
42.5°	1588.8	1569.4	1567.8	1540.0	1538.1
45°	1469.9	1450.5	1444.2	1418.3	1414.4
47.5°	1334.4	1315.0	1303.1	1282.1	1279.3
50°	1236.2	1216.8	1206.4	1188.5	1182.7
52.5°	1130.0	1110.6	1101.8	1085.5	1079.7
55°	962.8	947.3	941.0	925.0	921.2
57.5°	803.9	793.4	791.6	776.1	774.6
60°	707.2	701.4	701.3	687.4	687.4
62.5°	624.8	620.6	623.6	614.5	612.9
65°	517.0	513.2	519.0	515.1	515.1
67.5°	431.9	431.9	435.4	433.8	433.8
70°	384.3	384.3	386.3	386.3	386.3
72.5°	341.5	340.0	345.1	345.1	343.5
75°	279.3	279.3	279.3	281.3	281.3
77.5°	217.5	217.9	219.5	219.1	217.5
80°	176.3	178.2	178.3	176.3	176.3
82.5°	135.1	137.0	137.1	136.7	135.1
85°	71.3	75.2	79.2	79.2	79.2
87.5°	21.2	28.0	34.1	34.4	33.1
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)