

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: P564591

Luminaire Tested: **SQ4-PW1-025U-100D-940-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564591
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-025U-100D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

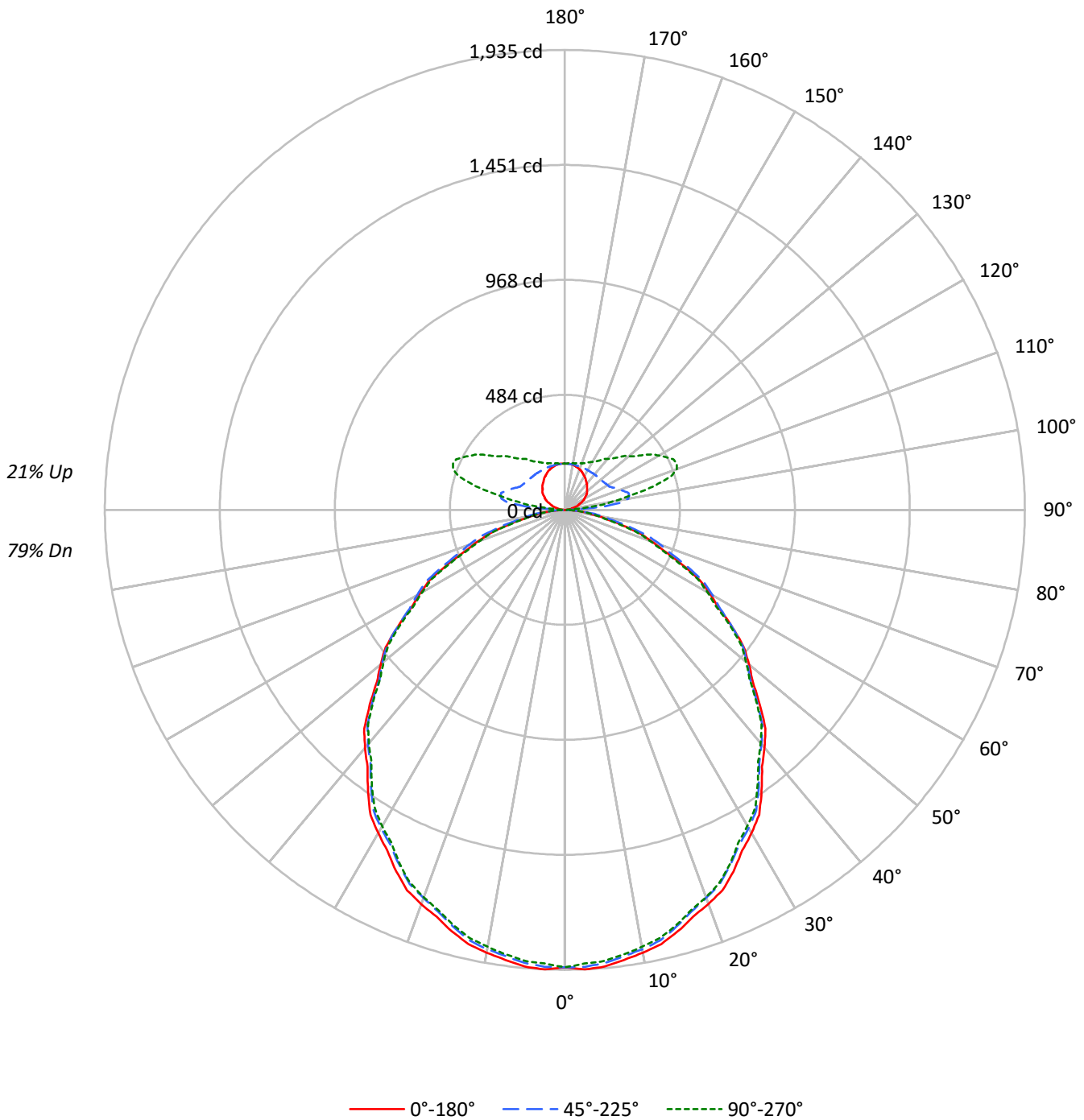
Lumens per Lamp: N/A
Luminaire Lumens: 6162.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 63.5
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	83	83	83	79				
1	105	100	96	93	100	96	92	89	88	85	83	81	78	76	74	72	71	67				
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57				
3	87	77	70	63	83	74	67	62	68	63	58	63	58	54	58	54	51	48				
4	80	69	60	54	76	66	58	52	61	55	50	56	51	47	52	48	44	41				
5	73	61	53	46	70	59	51	45	55	48	43	50	45	41	47	42	38	36				
6	68	55	47	41	65	53	45	40	49	43	38	46	40	36	42	38	34	32				
7	63	50	42	36	60	48	40	35	45	38	33	42	36	32	39	34	30	28				
8	58	46	37	32	56	44	36	31	41	34	30	38	33	28	36	31	27	25				
9	55	42	34	29	52	40	33	28	38	31	27	35	30	26	33	28	25	23				
10	51	38	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	20				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11837	11837	11837
5°	11913	11819	11766
10°	11818	11723	11659
15°	11693	11563	11520
20°	11553	11376	11353
25°	11391	11184	11150
30°	11151	10982	10910
35°	10834	10681	10617
40°	10496	10333	10292
45°	10088	9955	9911
50°	9669	9588	9524
55°	9218	9218	9073
60°	8655	8823	8510
65°	7922	8316	7724
70°	6983	7654	6800
75°	5963	6849	5803
80°	4626	5767	4683
85°	2992	4425	3952



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.2	2.9
10°-20°	511.6	8.3
20°-30°	758.9	12.3
30°-40°	888.0	14.4
40°-50°	884.0	14.3
50°-60°	763.4	12.4
60°-70°	549.5	8.9
70°-80°	288.2	4.7
80°-90°	72.5	1.2
90°-100°	95.1	1.5
100°-110°	250.1	4.1
110°-120°	259.3	4.2
120°-130°	208.0	3.4
130°-140°	163.2	2.6
140°-150°	125.3	2.0
150°-160°	90.2	1.5
160°-170°	55.2	0.9
170°-180°	18.6	0.3
0°-30°	1451.7	23.6
0°-40°	2339.7	38.0
0°-60°	3987.1	64.7
0°-90°	4897.2	79.5
90°-120°	604.6	9.8
90°-150°	1101.1	17.9
90°-180°	1265.0	20.5
0°-180°	6162.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1924	1924	1924	1924	1924	
5°	1930	1908	1914	1909	1906	183
15°	1836	1813	1816	1812	1809	518
25°	1678	1650	1648	1638	1643	772
35°	1443	1423	1422	1409	1414	902
45°	1160	1150	1144	1141	1139	895
55°	860	858	860	848	846	767
65°	544	561	571	549	531	539
75°	251	274	288	269	244	269
85°	42	56	63	59	56	56
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1924.4	1924.4	1924.4	1924.4	1924.4
2.5°	1935.2	1919.3	1924.4	1920.1	1910.8
5°	1929.5	1907.9	1914.2	1909.1	1905.7
7.5°	1909.8	1889.9	1894.5	1889.1	1887.1
10°	1892.2	1872.3	1876.9	1870.1	1866.7
12.5°	1871.8	1850.6	1855.2	1848.4	1846.4
15°	1836.2	1813.0	1815.9	1812.4	1809.1
17.5°	1794.9	1771.3	1771.8	1766.4	1765.7
20°	1765.0	1740.1	1737.9	1731.2	1734.5
22.5°	1732.5	1706.3	1704.0	1694.6	1699.2
25°	1678.5	1650.4	1648.0	1638.0	1642.9
27.5°	1616.1	1588.3	1588.3	1574.2	1579.5
30°	1570.0	1543.5	1546.3	1529.5	1536.1
32.5°	1521.2	1497.3	1498.8	1482.0	1488.6
35°	1442.9	1423.0	1422.5	1409.1	1414.0
37.5°	1362.8	1345.3	1342.5	1334.7	1336.1
40°	1307.2	1292.3	1286.9	1281.8	1281.8
42.5°	1248.9	1235.3	1229.9	1226.2	1224.8
45°	1159.7	1149.8	1144.5	1141.0	1139.4
47.5°	1071.6	1062.3	1057.7	1055.2	1053.6
50°	1010.5	1003.9	1002.0	996.9	995.3
52.5°	949.5	945.5	943.7	937.2	935.6
55°	859.6	858.0	859.6	847.7	846.1
57.5°	766.0	768.7	774.2	758.1	754.2
60°	703.6	710.3	717.2	698.4	691.8
62.5°	639.9	650.5	660.2	638.7	629.4
65°	544.3	560.8	571.4	548.9	530.7
67.5°	452.0	472.6	485.3	461.0	440.5
70°	388.3	411.5	425.6	401.3	378.1
72.5°	332.7	358.5	370.0	347.0	323.8
75°	250.9	274.1	288.2	269.0	244.2
77.5°	178.0	199.9	211.6	194.9	174.3
80°	130.6	153.8	162.8	148.8	132.2
82.5°	92.6	111.8	118.0	109.6	98.3
85°	42.4	55.7	62.7	59.3	56.0
87.5°	11.1	20.9	27.8	26.8	28.1
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)