

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: P564579

Luminaire Tested: **SQ4-PW1-025U-100D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564579
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-840-1D-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

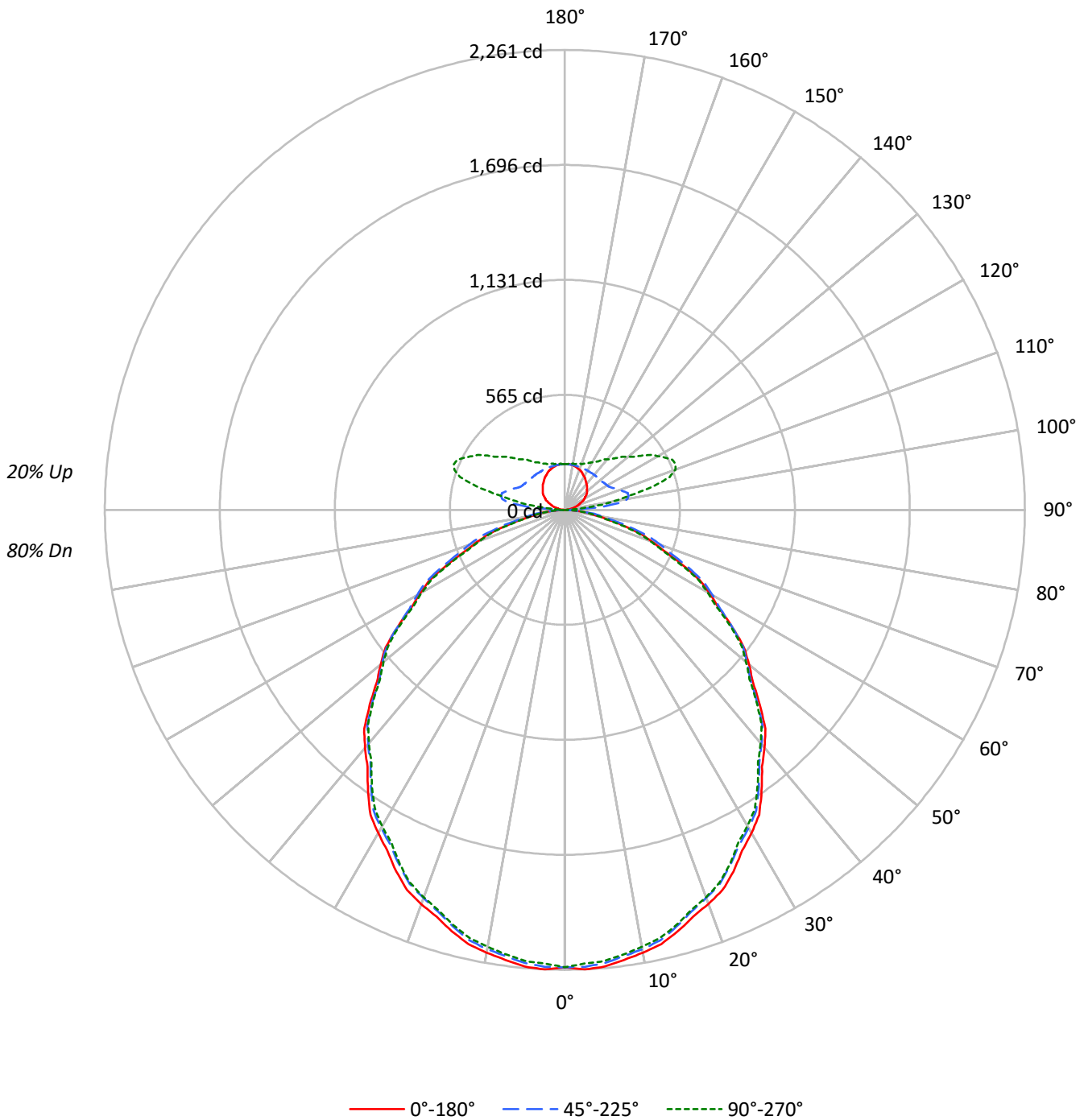
Lumens per Lamp: N/A
Luminaire Lumens: 7185.3 lumens
Efficiency: N/A
Efficacy: 113.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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	80				
1	105	100	96	93	100	96	92	89	88	85	83	81	79	77	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	51	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	35	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	39	31	26	49	37	30	25	35	29	24	33	27	23	31	26	22	21				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13830	13830	13830
5°	13919	13809	13748
10°	13808	13697	13622
15°	13662	13511	13460
20°	13498	13291	13265
25°	13310	13068	13028
30°	13029	12832	12747
35°	12659	12480	12406
40°	12264	12073	12025
45°	11787	11632	11580
50°	11298	11203	11128
55°	10771	10771	10600
60°	10113	10309	9943
65°	9255	9716	9025
70°	8159	8942	7945
75°	6968	8004	6780
80°	5402	6737	5473
85°	3493	5173	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	211.7	2.9
10°-20°	597.8	8.3
20°-30°	886.7	12.3
30°-40°	1037.5	14.4
40°-50°	1032.9	14.4
50°-60°	891.9	12.4
60°-70°	642.0	8.9
70°-80°	336.7	4.7
80°-90°	84.7	1.2
90°-100°	110.0	1.5
100°-110°	289.3	4.0
110°-120°	300.0	4.2
120°-130°	240.6	3.3
130°-140°	188.8	2.6
140°-150°	144.9	2.0
150°-160°	104.4	1.5
160°-170°	63.9	0.9
170°-180°	21.6	0.3
0°-30°	1696.2	23.6
0°-40°	2733.7	38.0
0°-60°	4658.5	64.8
0°-90°	5721.9	79.6
90°-120°	699.3	9.7
90°-150°	1273.6	17.7
90°-180°	1463.0	20.4
0°-180°	7185.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2248	2248	2248	2248	2248	
5°	2254	2229	2237	2230	2227	214
15°	2146	2118	2122	2118	2114	605
25°	1961	1928	1926	1914	1920	902
35°	1686	1663	1662	1646	1652	1054
45°	1355	1343	1337	1333	1331	1045
55°	1004	1002	1004	990	988	896
65°	636	655	668	641	620	630
75°	293	320	337	314	285	314
85°	50	65	73	69	65	65
90°	1	4	12	6	6	3
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2248.5	2248.5	2248.5	2248.5	2248.5
2.5°	2261.1	2242.5	2248.5	2243.5	2232.6
5°	2254.4	2229.2	2236.6	2230.5	2226.7
7.5°	2231.4	2208.2	2213.6	2207.2	2204.9
10°	2210.8	2187.6	2193.0	2185.0	2181.1
12.5°	2187.1	2162.3	2167.6	2159.7	2157.3
15°	2145.5	2118.3	2121.7	2117.6	2113.8
17.5°	2097.1	2069.6	2070.2	2063.8	2063.0
20°	2062.2	2033.2	2030.6	2022.7	2026.6
22.5°	2024.2	1993.6	1990.9	1980.0	1985.4
25°	1961.2	1928.3	1925.6	1913.8	1919.6
27.5°	1888.3	1855.8	1855.8	1839.3	1845.5
30°	1834.4	1803.4	1806.7	1787.1	1794.8
32.5°	1777.4	1749.5	1751.2	1731.6	1739.3
35°	1685.9	1662.6	1662.1	1646.4	1652.2
37.5°	1592.3	1571.8	1568.6	1559.5	1561.0
40°	1527.4	1509.9	1503.6	1497.7	1497.7
42.5°	1459.2	1443.3	1437.0	1432.6	1431.1
45°	1355.0	1343.4	1337.2	1333.2	1331.2
47.5°	1252.0	1241.2	1235.8	1232.9	1231.0
50°	1180.7	1172.9	1170.8	1164.8	1162.9
52.5°	1109.4	1104.7	1102.6	1095.1	1093.1
55°	1004.4	1002.4	1004.4	990.5	988.5
57.5°	895.0	898.1	904.5	885.8	881.2
60°	822.1	829.9	838.0	816.0	808.3
62.5°	747.6	760.0	771.4	746.2	735.4
65°	635.9	655.3	667.6	641.4	620.1
67.5°	528.1	552.2	567.0	538.7	514.7
70°	453.7	480.8	497.2	468.9	441.8
72.5°	388.7	418.9	432.3	405.5	378.4
75°	293.2	320.3	336.8	314.3	285.3
77.5°	208.0	233.6	247.2	227.7	203.6
80°	152.5	179.7	190.2	173.9	154.5
82.5°	108.2	130.6	137.9	128.1	114.9
85°	49.5	65.0	73.3	69.2	65.4
87.5°	13.0	24.4	32.4	31.3	32.9
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)