

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: P564671

Luminaire Tested: **SQ4-PW1-050U-100D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564671
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-100D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

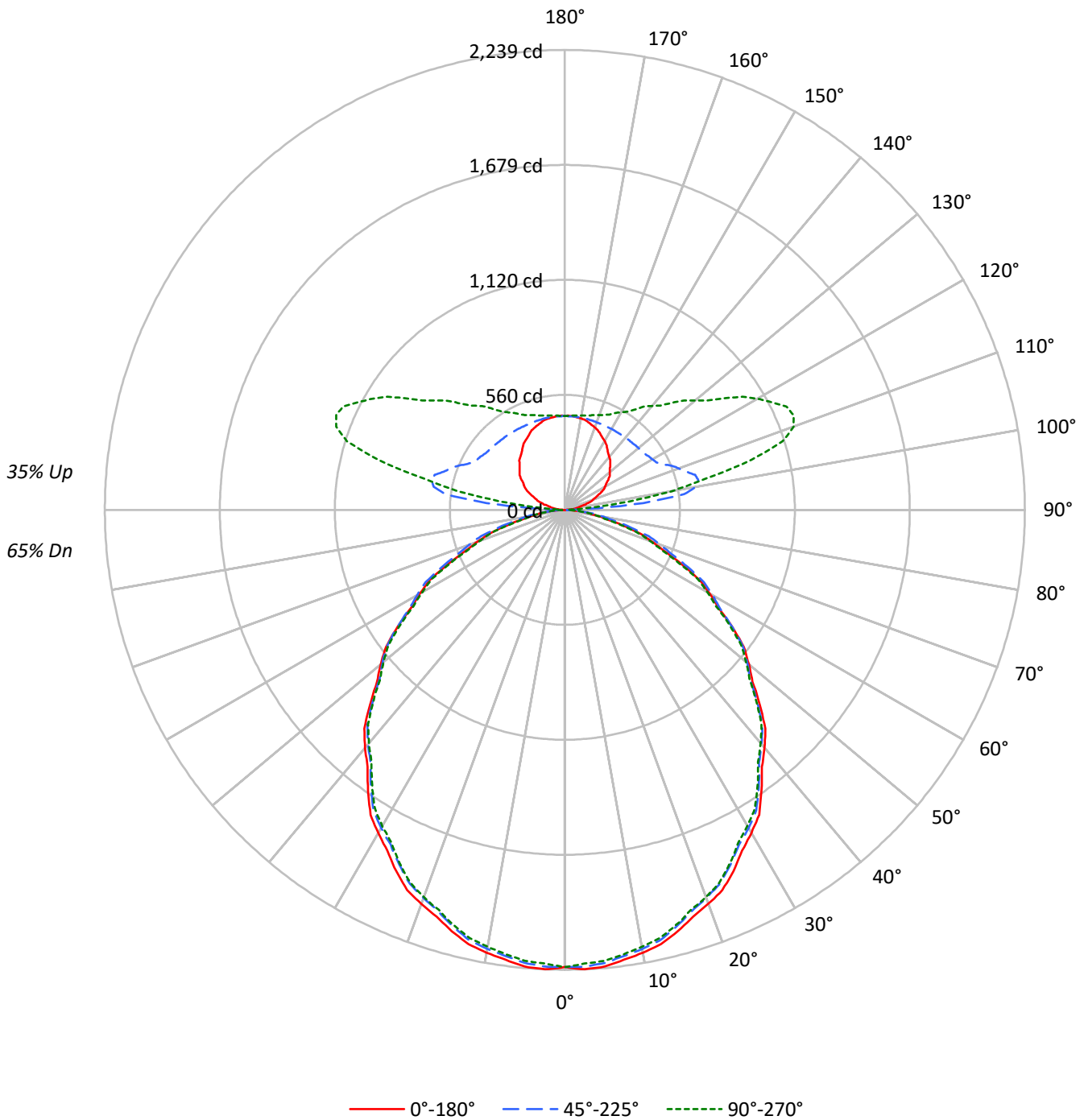
Lumens per Lamp: N/A
Luminaire Lumens: 8653.4 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.4
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65
1	101	97	93	90	95	91	88	85	81	78	76	71	69	68	62	61	60	55
2	92	85	79	73	87	80	75	70	71	67	63	63	59	57	55	53	50	47
3	84	75	67	61	79	71	64	59	63	58	53	56	51	48	49	46	43	40
4	77	66	58	52	72	63	55	50	56	50	45	50	45	41	44	40	37	34
5	71	59	51	45	67	56	48	43	50	44	39	45	40	36	39	36	32	30
6	66	53	45	39	61	50	43	37	45	39	34	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	42	34	29	38	31	27	34	29	25	30	26	23	21
9	53	40	32	27	49	38	31	26	34	29	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	24	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13692	13692	13692
5°	13780	13672	13611
10°	13671	13560	13487
15°	13526	13376	13326
20°	13364	13159	13133
25°	13178	12938	12898
30°	12899	12704	12620
35°	12533	12356	12282
40°	12142	11952	11905
45°	11669	11516	11465
50°	11185	11091	11017
55°	10664	10664	10495
60°	10012	10205	9844
65°	9163	9620	8935
70°	8076	8853	7866
75°	6899	7923	6711
80°	5349	6670	5419
85°	3458	5124	4566



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.6	2.4
10°-20°	591.8	6.8
20°-30°	877.9	10.1
30°-40°	1027.2	11.9
40°-50°	1022.6	11.8
50°-60°	883.1	10.2
60°-70°	635.6	7.3
70°-80°	333.3	3.9
80°-90°	84.4	1.0
90°-100°	219.7	2.5
100°-110°	596.8	6.9
110°-120°	613.6	7.1
120°-130°	490.6	5.7
130°-140°	385.5	4.5
140°-150°	295.6	3.4
150°-160°	212.5	2.5
160°-170°	130.0	1.5
170°-180°	43.8	0.5
0°-30°	1679.3	19.4
0°-40°	2706.5	31.3
0°-60°	4612.1	53.3
0°-90°	5665.5	65.5
90°-120°	1430.0	16.5
90°-150°	2601.6	30.1
90°-180°	2988.0	34.5
0°-180°	8653.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2226	2226	2226	2226	2226	
5°	2232	2207	2214	2208	2204	211
15°	2124	2097	2100	2096	2093	599
25°	1942	1909	1906	1895	1900	893
35°	1669	1646	1646	1630	1636	1043
45°	1342	1330	1324	1320	1318	1035
55°	994	992	994	981	979	887
65°	630	649	661	635	614	624
75°	290	317	333	311	282	311
85°	49	64	73	69	65	65
90°	2	6	10	13	13	4
95°	32	120	383	166	112	34
105°	106	165	656	999	940	113
115°	188	229	525	1045	1190	186
125°	259	295	475	801	945	231
135°	312	346	462	652	736	241
145°	360	386	456	554	596	226
155°	408	422	453	498	512	188
165°	441	447	455	474	475	125
175°	458	459	456	462	461	43
180°	458	458	458	458	458	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2226.1	2226.1	2226.1	2226.1	2226.1
2.5°	2238.6	2220.2	2226.1	2221.1	2210.4
5°	2231.9	2207.0	2214.3	2208.3	2204.5
7.5°	2209.2	2186.2	2191.5	2185.2	2182.9
10°	2188.8	2165.8	2171.1	2163.2	2159.4
12.5°	2165.3	2140.7	2146.0	2138.1	2135.8
15°	2124.1	2097.2	2100.5	2096.5	2092.7
17.5°	2076.2	2049.0	2049.5	2043.3	2042.5
20°	2041.7	2012.9	2010.3	2002.6	2006.4
22.5°	2004.0	1973.7	1971.1	1960.2	1965.6
25°	1941.7	1909.1	1906.4	1894.7	1900.5
27.5°	1869.5	1837.3	1837.3	1821.0	1827.1
30°	1816.2	1785.5	1788.7	1769.3	1776.9
32.5°	1759.7	1732.1	1733.8	1714.3	1722.0
35°	1669.1	1646.0	1645.5	1630.0	1635.7
37.5°	1576.5	1556.2	1552.9	1544.0	1545.5
40°	1512.2	1494.9	1488.6	1482.7	1482.7
42.5°	1444.7	1429.0	1422.7	1418.4	1416.8
45°	1341.5	1330.0	1323.9	1319.9	1318.0
47.5°	1239.5	1228.8	1223.5	1220.7	1218.7
50°	1168.9	1161.3	1159.1	1153.2	1151.3
52.5°	1098.3	1093.7	1091.7	1084.2	1082.2
55°	994.4	992.5	994.4	980.6	978.7
57.5°	886.1	889.2	895.5	877.0	872.4
60°	813.9	821.6	829.6	807.9	800.2
62.5°	740.2	752.5	763.7	738.8	728.0
65°	629.6	648.8	661.0	635.0	613.9
67.5°	522.9	546.7	561.3	533.3	509.5
70°	449.1	476.0	492.3	464.2	437.4
72.5°	384.8	414.7	428.0	401.5	374.6
75°	290.3	317.1	333.4	311.2	282.4
77.5°	205.9	231.2	244.8	225.4	201.6
80°	151.0	177.9	188.3	172.2	153.0
82.5°	107.1	129.3	136.5	126.8	113.8
85°	49.0	64.4	72.6	68.6	64.7
87.5°	12.8	24.4	31.9	32.5	34.0
90°	1.5	5.8	10.3	13.2	13.2
92.5°	13.2	60.1	104.5	44.9	38.0
95°	32.4	120.1	382.6	166.5	111.8
97.5°	53.6	132.7	586.5	456.3	320.5
100°	67.7	141.1	648.9	657.8	531.2
102.5°	81.8	149.4	665.4	813.5	701.9
105°	105.9	164.9	656.3	999.2	940.2
107.5°	131.0	183.0	618.3	1095.1	1111.5
110°	148.6	196.1	590.0	1114.0	1184.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	163.9	209.1	561.8	1098.3	1204.5
115°	188.3	228.6	525.3	1045.1	1190.4
117.5°	211.3	249.9	502.0	969.6	1133.3
120°	226.6	264.0	491.5	918.9	1081.5
122.5°	239.5	277.0	484.4	868.2	1025.0
125°	259.0	294.9	475.3	800.8	944.7
127.5°	276.3	312.0	470.3	749.7	873.1
130°	286.9	321.5	467.9	717.6	828.4
132.5°	297.5	332.1	465.6	690.3	788.4
135°	311.9	346.5	462.0	652.3	735.7
137.5°	327.5	358.9	460.3	618.7	688.9
140°	337.0	367.2	459.1	597.4	660.7
142.5°	346.4	374.3	457.9	580.6	633.6
145°	360.5	386.4	456.1	554.2	595.9
147.5°	376.4	398.5	454.7	533.4	566.2
150°	387.0	405.7	454.7	521.5	547.4
152.5°	395.2	411.6	453.5	510.8	532.1
155°	407.6	422.0	453.2	497.7	512.1
157.5°	419.6	430.9	453.2	488.8	499.7
160°	426.7	436.8	453.2	482.8	491.5
162.5°	433.8	441.5	454.4	478.1	484.4
165°	441.4	447.2	454.7	473.8	475.3
167.5°	449.4	452.2	456.1	468.8	470.0
170°	451.7	454.6	456.1	466.4	466.4
172.5°	454.1	455.8	456.1	464.1	464.1
175°	457.6	459.1	456.1	462.0	460.6
177.5°	458.8	458.8	455.3	459.9	457.6
180°	457.6	457.6	457.6	457.6	457.6

(END OF REPORT)