

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: P562235

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562235
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-125D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

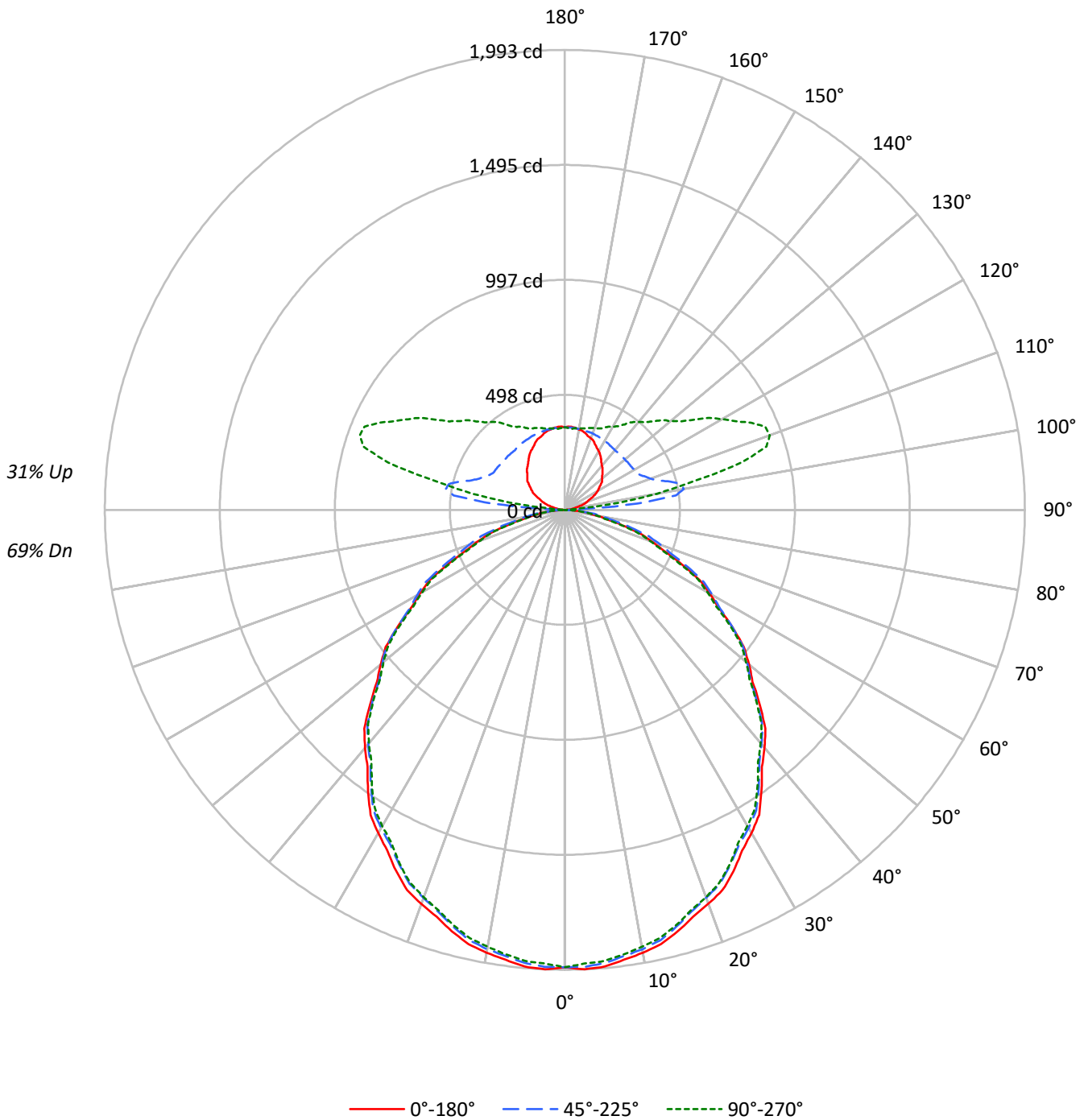
Lumens per Lamp: N/A
Luminaire Lumens: 7264.9 lumens
Efficiency: N/A
Efficacy: 101.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.6
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	55	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	33	30	28
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18284	18284	18284
5°	18402	18257	18177
10°	18256	18108	18010
15°	18062	17863	17796
20°	17847	17572	17537
25°	17597	17277	17225
30°	17226	16965	16853
35°	16736	16500	16401
40°	16214	15962	15898
45°	15583	15378	15310
50°	14938	14811	14711
55°	14240	14240	14015
60°	13371	13629	13145
65°	12236	12845	11931
70°	10788	11823	10504
75°	9211	10580	8962
80°	7141	8905	7237
85°	4626	6838	6097



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.6	2.6
10°-20°	526.9	7.3
20°-30°	781.5	10.8
30°-40°	914.5	12.6
40°-50°	910.4	12.5
50°-60°	786.2	10.8
60°-70°	565.9	7.8
70°-80°	296.7	4.1
80°-90°	73.6	1.0
90°-100°	163.0	2.2
100°-110°	463.9	6.4
110°-120°	444.5	6.1
120°-130°	351.8	4.8
130°-140°	282.4	3.9
140°-150°	221.1	3.0
150°-160°	161.8	2.2
160°-170°	100.2	1.4
170°-180°	34.0	0.5
0°-30°	1495.0	20.6
0°-40°	2409.5	33.2
0°-60°	4106.0	56.5
0°-90°	5042.2	69.4
90°-120°	1071.5	14.7
90°-150°	1926.7	26.5
90°-180°	2223.0	30.6
0°-180°	7264.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1982	1982	1982	1982	1982	
5°	1987	1965	1971	1966	1963	188
15°	1891	1867	1870	1866	1863	533
25°	1729	1700	1697	1687	1692	795
35°	1486	1465	1465	1451	1456	929
45°	1194	1184	1179	1175	1173	921
55°	885	884	885	873	871	790
65°	560	578	588	565	546	555
75°	258	282	297	277	251	277
85°	44	57	65	61	58	58
90°	0	0	0	0	0	2
95°	18	70	316	109	67	20
105°	72	109	473	835	794	76
115°	134	162	358	760	892	132
125°	189	210	342	568	679	169
135°	231	251	338	480	542	178
145°	273	287	341	415	452	170
155°	312	319	349	375	390	144
165°	344	346	353	361	366	97
175°	360	358	357	355	352	34
180°	358	358	358	358	358	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1981.8	1981.8	1981.8	1981.8	1981.8
2.5°	1993.0	1976.6	1981.8	1977.4	1967.8
5°	1987.0	1964.8	1971.3	1966.0	1962.6
7.5°	1966.8	1946.3	1951.1	1945.4	1943.4
10°	1948.6	1928.1	1932.9	1925.8	1922.4
12.5°	1927.7	1905.8	1910.6	1903.5	1901.5
15°	1891.0	1867.1	1870.1	1866.5	1863.1
17.5°	1848.4	1824.2	1824.7	1819.0	1818.4
20°	1817.7	1792.1	1789.7	1782.8	1786.2
22.5°	1784.1	1757.2	1754.8	1745.1	1749.9
25°	1728.6	1699.6	1697.2	1686.8	1692.0
27.5°	1664.4	1635.7	1635.7	1621.2	1626.6
30°	1616.9	1589.6	1592.4	1575.1	1581.9
32.5°	1566.6	1542.0	1543.5	1526.2	1533.1
35°	1485.9	1465.4	1465.0	1451.1	1456.2
37.5°	1403.5	1385.4	1382.5	1374.5	1375.9
40°	1346.2	1330.9	1325.3	1320.0	1320.0
42.5°	1286.2	1272.2	1266.6	1262.7	1261.4
45°	1194.3	1184.1	1178.6	1175.1	1173.4
47.5°	1103.5	1094.0	1089.2	1086.7	1085.0
50°	1040.7	1033.8	1031.9	1026.7	1024.9
52.5°	977.8	973.7	971.9	965.2	963.5
55°	885.3	883.6	885.3	873.0	871.3
57.5°	788.9	791.6	797.3	780.8	776.7
60°	724.6	731.5	738.6	719.2	712.4
62.5°	659.0	669.9	679.9	657.7	648.1
65°	560.5	577.6	588.4	565.3	546.5
67.5°	465.5	486.7	499.7	474.8	453.6
70°	399.9	423.8	438.3	413.3	389.4
72.5°	342.6	369.2	381.0	357.4	333.5
75°	258.4	282.3	296.8	277.0	251.4
77.5°	183.3	205.9	217.9	200.7	179.5
80°	134.4	158.3	167.6	153.3	136.2
82.5°	95.3	115.1	121.5	112.9	101.3
85°	43.7	57.3	64.6	61.0	57.6
87.5°	11.2	20.7	26.5	26.6	27.9
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.4	28.9	66.9	19.5	14.7
95°	17.7	70.2	315.6	109.3	67.3
97.5°	32.5	82.3	486.1	347.8	238.4
100°	42.9	89.4	523.1	529.9	408.2
102.5°	54.3	97.1	515.0	678.3	572.0
105°	72.1	109.4	472.8	835.1	793.9
107.5°	90.2	123.6	423.5	879.3	916.0
110°	102.7	134.0	395.2	862.4	944.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	114.7	144.4	376.2	822.4	940.0
115°	134.0	161.9	358.5	759.5	891.8
117.5°	151.0	177.2	348.0	690.7	830.9
120°	164.6	186.6	346.9	651.3	785.7
122.5°	175.5	197.5	344.2	616.8	741.6
125°	189.1	209.7	342.2	567.8	678.9
127.5°	203.9	223.2	341.1	538.5	630.1
130°	211.6	230.9	339.5	518.1	598.0
132.5°	219.7	238.5	339.5	502.2	575.6
135°	231.3	250.6	338.1	479.6	542.2
137.5°	242.2	260.9	338.0	460.5	514.6
140°	250.3	269.6	337.4	444.7	496.6
142.5°	259.6	275.7	339.0	432.1	478.6
145°	272.8	286.8	340.8	415.1	452.4
147.5°	284.1	297.6	343.8	398.0	430.2
150°	293.9	303.2	344.9	392.3	415.0
152.5°	301.5	311.3	346.0	384.7	405.7
155°	311.6	318.9	349.0	375.2	390.5
157.5°	324.1	328.5	349.7	370.9	381.8
160°	330.6	333.9	352.4	367.6	376.9
162.5°	334.4	338.3	352.9	364.8	372.0
165°	344.2	345.5	353.1	360.7	366.0
167.5°	350.9	349.7	356.2	359.6	361.8
170°	353.1	352.4	355.1	355.8	358.5
172.5°	358.0	355.7	356.7	354.7	356.9
175°	360.5	358.5	357.1	355.0	352.4
177.5°	361.6	358.4	356.7	354.6	355.1
180°	357.8	357.8	357.8	357.8	357.8

(END OF REPORT)