

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: P562234

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562234
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 (3500K)
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 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

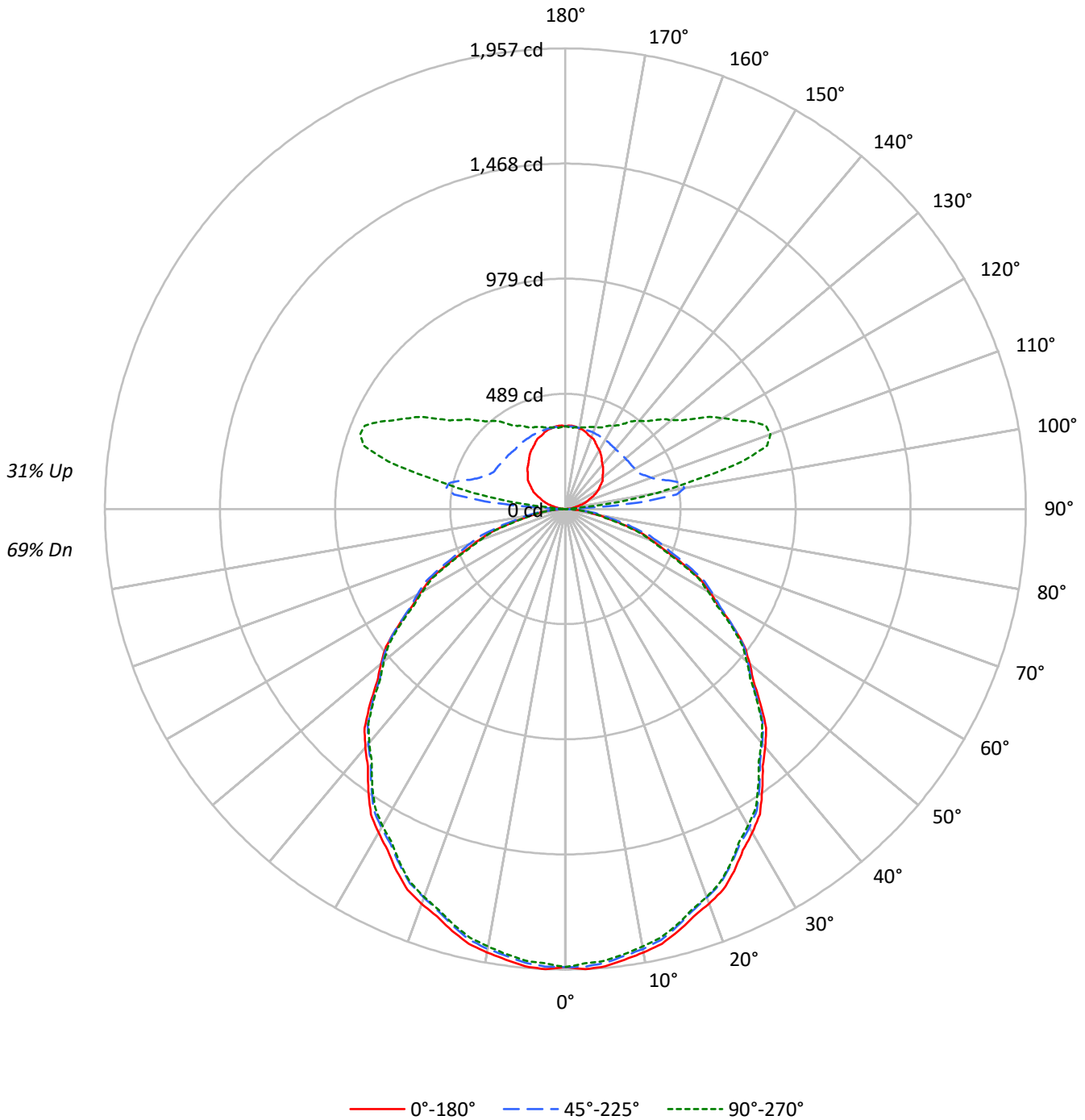
Lumens per Lamp: N/A
Luminaire Lumens: 7134.4 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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°	17956	17956	17956
5°	18072	17929	17850
10°	17928	17783	17687
15°	17737	17542	17476
20°	17526	17257	17222
25°	17282	16967	16915
30°	16916	16660	16550
35°	16435	16203	16107
40°	15922	15675	15613
45°	15304	15102	15035
50°	14669	14546	14447
55°	13985	13985	13763
60°	13131	13384	12909
65°	12016	12616	11717
70°	10593	11610	10315
75°	9047	10391	8801
80°	7013	8745	7104
85°	4541	6711	5992



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.3	2.6
10°-20°	517.4	7.3
20°-30°	767.5	10.8
30°-40°	898.0	12.6
40°-50°	894.0	12.5
50°-60°	772.0	10.8
60°-70°	555.7	7.8
70°-80°	291.4	4.1
80°-90°	72.3	1.0
90°-100°	160.1	2.2
100°-110°	455.6	6.4
110°-120°	436.5	6.1
120°-130°	345.5	4.8
130°-140°	277.3	3.9
140°-150°	217.1	3.0
150°-160°	158.8	2.2
160°-170°	98.4	1.4
170°-180°	33.4	0.5
0°-30°	1468.2	20.6
0°-40°	2366.2	33.2
0°-60°	4032.2	56.5
0°-90°	4951.6	69.4
90°-120°	1052.2	14.7
90°-150°	1892.1	26.5
90°-180°	2183.0	30.6
0°-180°	7134.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1946	1946	1946	1946	1946	
5°	1951	1930	1936	1931	1927	185
15°	1857	1834	1836	1833	1830	523
25°	1698	1669	1667	1656	1662	781
35°	1459	1439	1439	1425	1430	912
45°	1173	1163	1157	1154	1152	905
55°	869	868	869	857	856	776
65°	550	567	578	555	537	545
75°	254	277	292	272	247	272
85°	43	56	63	60	57	57
90°	0	0	0	0	0	2
95°	17	69	310	107	66	20
105°	71	107	464	820	780	75
115°	132	159	352	746	876	130
125°	186	206	336	558	667	166
135°	227	246	332	471	532	175
145°	268	282	335	408	444	167
155°	306	313	343	368	384	141
165°	338	339	347	354	359	95
175°	354	352	351	349	346	34
180°	351	351	351	351	351	

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CATALOG NUMBER: SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (3500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1946.2	1946.2	1946.2	1946.2	1946.2
2.5°	1957.2	1941.1	1946.2	1941.9	1932.5
5°	1951.3	1929.5	1935.9	1930.7	1927.3
7.5°	1931.4	1911.3	1916.0	1910.5	1908.5
10°	1913.6	1893.5	1898.2	1891.2	1887.9
12.5°	1893.0	1871.6	1876.2	1869.3	1867.3
15°	1857.0	1833.6	1836.5	1832.9	1829.6
17.5°	1815.2	1791.4	1791.9	1786.4	1785.7
20°	1785.0	1759.9	1757.6	1750.8	1754.1
22.5°	1752.1	1725.6	1723.3	1713.8	1718.5
25°	1697.6	1669.1	1666.7	1656.5	1661.6
27.5°	1634.5	1606.3	1606.3	1592.1	1597.4
30°	1587.8	1561.0	1563.8	1546.8	1553.5
32.5°	1538.4	1514.3	1515.8	1498.8	1505.5
35°	1459.2	1439.1	1438.6	1425.0	1430.1
37.5°	1378.3	1360.5	1357.7	1349.8	1351.2
40°	1322.0	1307.0	1301.5	1296.3	1296.3
42.5°	1263.1	1249.3	1243.9	1240.0	1238.7
45°	1172.9	1162.8	1157.4	1154.0	1152.3
47.5°	1083.7	1074.3	1069.6	1067.2	1065.5
50°	1022.0	1015.3	1013.4	1008.2	1006.5
52.5°	960.2	956.2	954.4	947.9	946.2
55°	869.4	867.7	869.4	857.3	855.6
57.5°	774.7	777.4	782.9	766.7	762.7
60°	711.6	718.3	725.3	706.3	699.6
62.5°	647.1	657.9	667.7	645.9	636.5
65°	550.4	567.2	577.9	555.1	536.7
67.5°	457.1	477.9	490.7	466.3	445.5
70°	392.7	416.1	430.4	405.9	382.4
72.5°	336.4	362.6	374.1	351.0	327.5
75°	253.8	277.2	291.5	272.1	246.9
77.5°	180.0	202.2	214.0	197.1	176.3
80°	132.0	155.5	164.6	150.5	133.7
82.5°	93.6	113.1	119.3	110.9	99.5
85°	42.9	56.3	63.4	59.9	56.6
87.5°	11.0	20.4	26.1	26.1	27.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.3	28.3	65.7	19.1	14.4
95°	17.4	69.0	310.0	107.3	66.1
97.5°	31.9	80.8	477.4	341.6	234.1
100°	42.1	87.8	513.7	520.4	400.8
102.5°	53.3	95.4	505.7	666.1	561.7
105°	70.8	107.4	464.3	820.1	779.6
107.5°	88.6	121.4	415.9	863.5	899.6
110°	100.9	131.6	388.1	846.9	927.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	112.6	141.8	369.4	807.6	923.1
115°	131.6	159.0	352.1	745.8	875.8
117.5°	148.3	174.0	341.8	678.3	815.9
120°	161.7	183.2	340.7	639.6	771.6
122.5°	172.4	193.9	338.0	605.8	728.3
125°	185.7	206.0	336.0	557.6	666.7
127.5°	200.3	219.2	335.0	528.9	618.7
130°	207.8	226.7	333.4	508.8	587.2
132.5°	215.8	234.2	333.4	493.2	565.3
135°	227.1	246.1	332.0	471.0	532.4
137.5°	237.8	256.2	331.9	452.3	505.3
140°	245.8	264.8	331.3	436.7	487.7
142.5°	254.9	270.7	333.0	424.3	470.0
145°	267.9	281.6	334.7	407.7	444.2
147.5°	279.0	292.3	337.6	390.9	422.5
150°	288.6	297.7	338.7	385.3	407.5
152.5°	296.1	305.7	339.8	377.8	398.4
155°	306.0	313.1	342.7	368.4	383.5
157.5°	318.3	322.6	343.4	364.2	374.9
160°	324.7	327.9	346.0	361.0	370.1
162.5°	328.4	332.2	346.6	358.2	365.3
165°	338.0	339.3	346.7	354.2	359.4
167.5°	344.6	343.4	349.8	353.2	355.3
170°	346.7	346.1	348.7	349.4	352.1
172.5°	351.5	349.3	350.3	348.4	350.5
175°	354.1	352.1	350.7	348.7	346.0
177.5°	355.1	352.0	350.3	348.2	348.7
180°	351.4	351.4	351.4	351.4	351.4

(END OF REPORT)