

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: P564698

Luminaire Tested: **SQ4-PW1-050U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564698
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-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

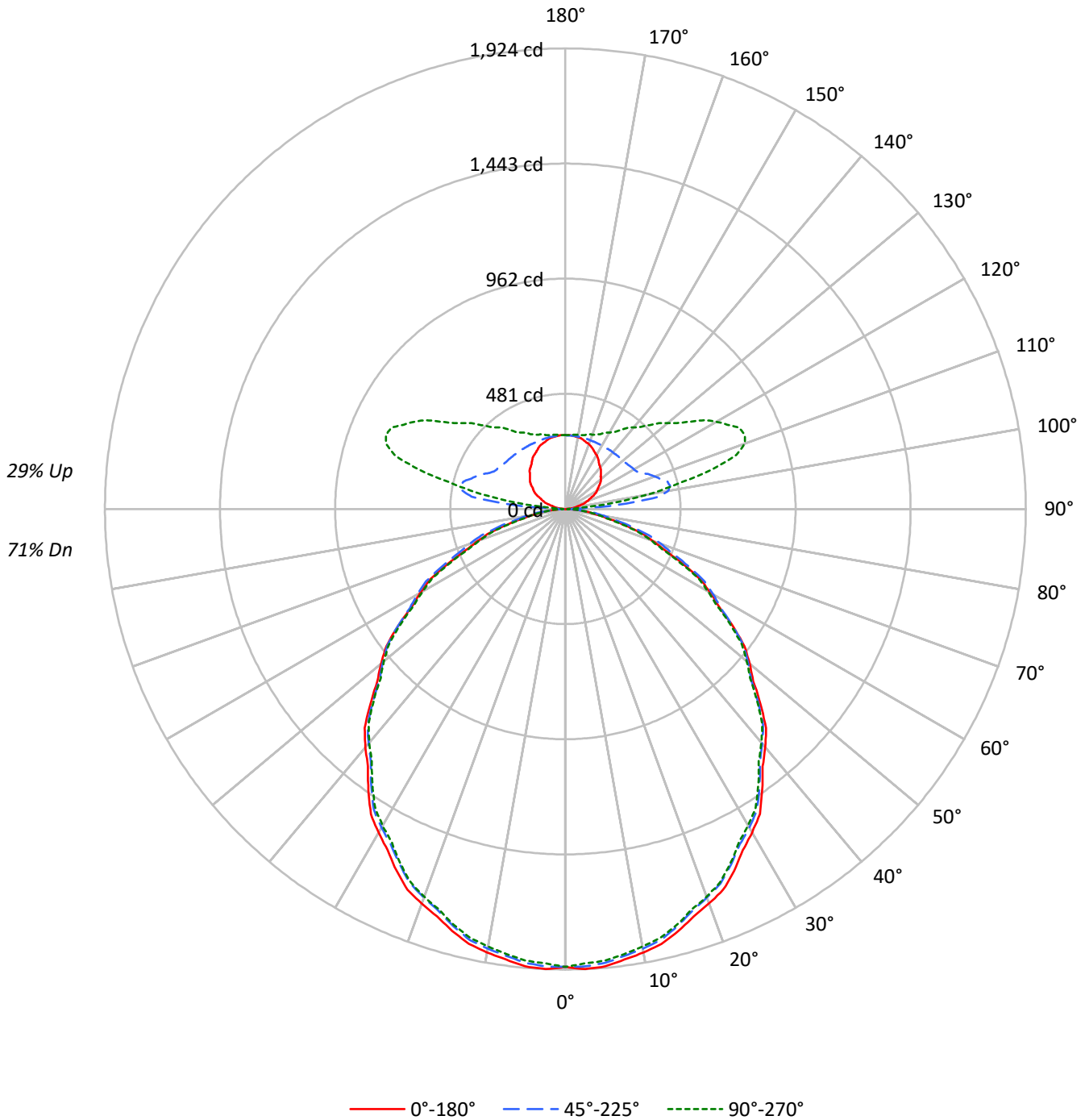
Lumens per Lamp: N/A
Luminaire Lumens: 6880.0 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 55.9
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	95	95	95	85	85	85	75	75	75	71
1	103	98	94	91	97	93	90	86	84	81	78	75	73	71	67	65	64	60
2	94	86	80	74	88	82	76	71	73	69	65	66	62	59	59	56	54	50
3	85	76	68	62	81	72	65	60	65	59	55	58	54	50	52	49	46	43
4	78	67	59	53	74	64	56	51	58	52	47	52	47	43	47	43	40	37
5	72	60	52	45	68	57	49	44	52	45	41	47	42	38	42	38	35	32
6	66	54	46	40	63	51	44	38	47	40	36	42	37	33	38	34	31	28
7	61	49	41	35	58	47	39	34	42	36	32	39	33	29	35	31	27	25
8	57	44	36	31	54	43	35	30	39	33	28	35	30	26	32	28	24	22
9	53	41	33	28	50	39	32	27	36	30	25	33	27	24	30	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	28	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17545
10°	17621	17479	17384
15°	17435	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15345
45°	15042	14843	14778
50°	14418	14297	14200
55°	13745	13745	13528
60°	12906	13155	12688
65°	11811	12400	11516
70°	10410	11411	10137
75°	8890	10213	8652
80°	6896	8597	6987
85°	4457	6606	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	2.6
10°-20°	508.6	7.4
20°-30°	754.4	11.0
30°-40°	882.7	12.8
40°-50°	878.7	12.8
50°-60°	758.8	11.0
60°-70°	546.2	7.9
70°-80°	286.4	4.2
80°-90°	72.2	1.0
90°-100°	147.9	2.1
100°-110°	401.8	5.8
110°-120°	413.2	6.0
120°-130°	330.3	4.8
130°-140°	259.5	3.8
140°-150°	199.0	2.9
150°-160°	143.1	2.1
160°-170°	87.5	1.3
170°-180°	29.5	0.4
0°-30°	1443.0	21.0
0°-40°	2325.7	33.8
0°-60°	3963.3	57.6
0°-90°	4868.1	70.8
90°-120°	962.9	14.0
90°-150°	1751.8	25.5
90°-180°	2012.0	29.2
0°-180°	6880.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1918	1896	1903	1898	1894	182
15°	1825	1802	1805	1802	1798	514
25°	1668	1640	1638	1628	1633	767
35°	1434	1414	1414	1401	1406	897
45°	1153	1143	1138	1134	1133	889
55°	854	853	854	843	841	762
65°	541	558	568	546	528	536
75°	249	272	286	267	243	267
85°	42	55	62	59	56	56
90°	1	4	7	9	9	3
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1923.7	1907.9	1912.9	1908.6	1899.4
5°	1918.0	1896.5	1902.8	1897.7	1894.4
7.5°	1898.4	1878.6	1883.2	1877.8	1875.8
10°	1880.9	1861.1	1865.7	1858.9	1855.6
12.5°	1860.6	1839.6	1844.1	1837.3	1835.4
15°	1825.3	1802.2	1805.0	1801.6	1798.3
17.5°	1784.1	1760.7	1761.2	1755.8	1755.1
20°	1754.5	1729.8	1727.5	1720.8	1724.1
22.5°	1722.1	1696.1	1693.8	1684.5	1689.1
25°	1668.5	1640.5	1638.2	1628.2	1633.1
27.5°	1606.5	1578.8	1578.9	1564.8	1570.1
30°	1560.7	1534.3	1537.1	1520.4	1526.9
32.5°	1512.1	1488.4	1489.9	1473.2	1479.8
35°	1434.2	1414.5	1414.0	1400.7	1405.6
37.5°	1354.7	1337.2	1334.5	1326.8	1328.1
40°	1299.4	1284.6	1279.2	1274.1	1274.1
42.5°	1241.4	1227.9	1222.6	1218.8	1217.5
45°	1152.8	1142.9	1137.6	1134.2	1132.6
47.5°	1065.2	1055.9	1051.3	1048.9	1047.3
50°	1004.5	997.9	996.1	991.0	989.3
52.5°	943.8	939.9	938.1	931.6	930.0
55°	854.5	852.8	854.5	842.6	841.0
57.5°	761.5	764.1	769.5	753.6	749.7
60°	699.4	706.0	712.9	694.2	687.6
62.5°	636.1	646.6	656.3	634.8	625.6
65°	541.0	557.5	568.0	545.6	527.5
67.5°	449.3	469.8	482.4	458.3	437.9
70°	385.9	409.0	423.0	398.9	375.8
72.5°	330.7	356.4	367.7	345.0	321.9
75°	249.4	272.5	286.5	267.4	242.7
77.5°	177.0	198.7	210.3	193.7	173.3
80°	129.8	152.8	161.8	147.9	131.5
82.5°	92.0	111.1	117.3	109.0	97.8
85°	42.1	55.3	62.4	58.9	55.6
87.5°	11.0	20.8	27.0	27.4	28.7
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	110.4	140.8	378.3	739.6	811.1
115°	126.8	154.0	353.7	703.7	801.6
117.5°	142.3	168.2	338.1	652.9	763.1
120°	152.6	177.8	330.9	618.8	728.3
122.5°	161.3	186.5	326.2	584.6	690.2
125°	174.4	198.6	320.0	539.2	636.1
127.5°	186.1	210.1	316.7	504.8	588.0
130°	193.2	216.5	315.1	483.2	557.8
132.5°	200.3	223.6	313.5	464.8	530.9
135°	210.1	233.3	311.1	439.2	495.4
137.5°	220.6	241.7	309.9	416.6	463.9
140°	226.9	247.2	309.1	402.2	444.9
142.5°	233.2	252.0	308.3	391.0	426.6
145°	242.8	260.2	307.2	373.2	401.3
147.5°	253.5	268.4	306.2	359.2	381.3
150°	260.6	273.2	306.2	351.1	368.6
152.5°	266.1	277.2	305.4	343.9	358.3
155°	274.5	284.1	305.2	335.1	344.8
157.5°	282.6	290.1	305.2	329.1	336.5
160°	287.3	294.1	305.2	325.1	330.9
162.5°	292.1	297.3	306.0	321.9	326.2
165°	297.2	301.1	306.2	319.1	320.0
167.5°	302.6	304.5	307.2	315.7	316.5
170°	304.2	306.1	307.2	314.1	314.1
172.5°	305.8	306.9	307.2	312.5	312.5
175°	308.1	309.1	307.2	311.1	310.1
177.5°	308.9	308.9	306.6	309.7	308.1
180°	308.1	308.1	308.1	308.1	308.1

(END OF REPORT)