

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: P562682

Luminaire Tested: **SQ4-PC3-050U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562682
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-125D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

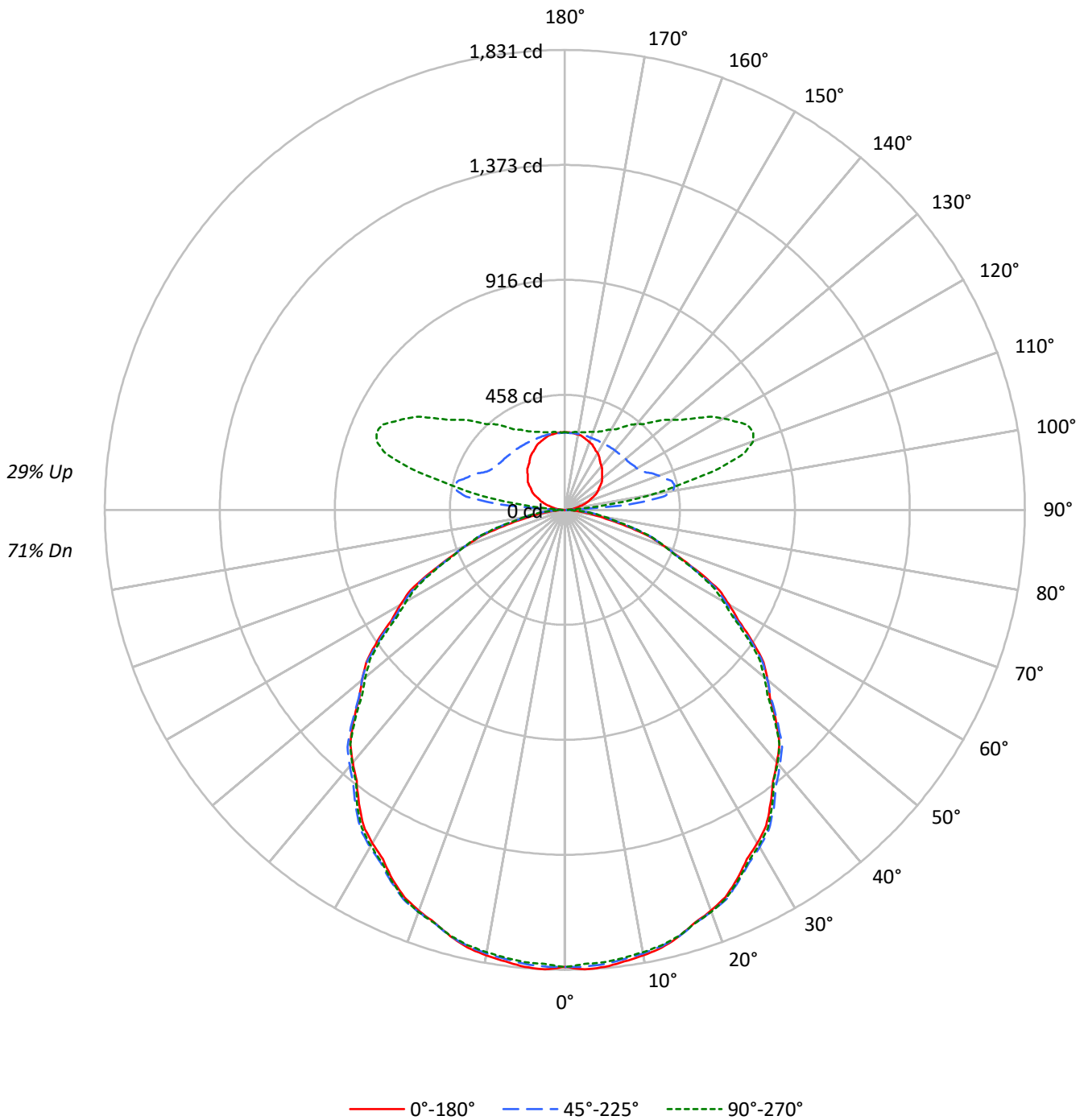
Lumens per Lamp: N/A
Luminaire Lumens: 6980.8 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	76	76	76	71
1	103	98	94	91	97	93	90	86	84	81	79	75	73	71	67	65	64	60
2	93	86	79	74	88	81	76	71	73	69	65	66	62	59	59	56	54	50
3	85	75	68	62	80	72	65	59	65	59	55	58	54	50	52	49	46	43
4	78	67	59	52	74	64	56	50	58	51	47	52	47	43	47	43	40	37
5	72	60	51	45	68	57	49	43	52	45	40	47	41	37	42	38	34	32
6	66	54	45	39	62	51	43	38	46	40	35	42	37	33	38	34	30	28
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	35	30	27	25
8	57	44	36	30	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	40	33	27	50	39	31	26	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	22	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16794	16794	16794
5°	16920	16810	16748
10°	16879	16800	16753
15°	16790	16790	16775
20°	16680	16729	16729
25°	16522	16642	16591
30°	16321	16518	16447
35°	16078	16325	16211
40°	15813	16035	15874
45°	15526	15635	15394
50°	15120	15120	14877
55°	14639	14450	14232
60°	13932	13653	13435
65°	12878	12621	12509
70°	11276	11365	11322
75°	9072	10035	10092
80°	6445	8506	8597
85°	3927	7135	7135



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.3	2.5
10°-20°	494.3	7.1
20°-30°	748.6	10.7
30°-40°	897.5	12.9
40°-50°	915.1	13.1
50°-60°	798.9	11.4
60°-70°	571.9	8.2
70°-80°	294.6	4.2
80°-90°	75.7	1.1
90°-100°	147.9	2.1
100°-110°	401.8	5.8
110°-120°	413.2	5.9
120°-130°	330.3	4.7
130°-140°	259.5	3.7
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°	1415.2	20.3
0°-40°	2312.7	33.1
0°-60°	4026.7	57.7
0°-90°	4968.9	71.2
90°-120°	962.9	13.8
90°-150°	1751.8	25.1
90°-180°	2012.0	28.8
0°-180°	6980.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1820	1820	1820	1820	1820	
5°	1827	1809	1815	1810	1808	173
15°	1758	1743	1758	1758	1756	496
25°	1623	1612	1635	1630	1630	747
35°	1428	1424	1449	1439	1439	893
45°	1190	1187	1198	1183	1180	916
55°	910	899	898	885	885	811
65°	590	577	578	573	573	583
75°	254	266	282	283	283	275
85°	37	57	67	69	67	50
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°	1820.2	1820.2	1820.2	1820.2	1820.2
2.5°	1831.0	1815.2	1820.2	1816.0	1809.4
5°	1826.9	1808.8	1815.1	1810.0	1808.4
7.5°	1813.8	1795.7	1804.0	1800.6	1799.0
10°	1801.7	1783.5	1793.2	1789.8	1788.2
12.5°	1785.5	1768.7	1779.7	1776.4	1776.0
15°	1757.8	1743.0	1757.8	1757.8	1756.2
17.5°	1723.1	1709.6	1725.5	1726.5	1725.5
20°	1698.9	1684.0	1703.9	1702.3	1703.9
22.5°	1669.2	1657.0	1678.3	1673.9	1675.6
25°	1623.0	1611.5	1634.8	1629.8	1629.8
27.5°	1568.4	1560.2	1585.6	1580.2	1580.2
30°	1532.0	1523.8	1550.5	1543.8	1543.8
32.5°	1491.6	1485.9	1511.4	1503.3	1503.3
35°	1427.5	1424.2	1449.4	1439.3	1439.3
37.5°	1361.4	1358.5	1381.3	1369.1	1365.1
40°	1312.9	1311.3	1331.4	1318.0	1318.0
42.5°	1264.4	1262.7	1280.2	1264.0	1264.0
45°	1189.9	1186.6	1198.3	1183.1	1179.8
47.5°	1108.6	1105.3	1112.7	1096.1	1094.5
50°	1053.4	1050.1	1053.4	1038.1	1036.5
52.5°	996.7	990.8	991.3	976.2	975.8
55°	910.1	898.6	898.3	884.8	884.8
57.5°	818.4	803.3	804.6	793.1	791.4
60°	755.0	738.6	739.9	729.7	728.1
62.5°	693.0	673.9	677.9	666.4	666.1
65°	589.9	576.7	578.1	573.0	573.0
67.5°	490.8	478.6	487.4	483.4	483.0
70°	418.0	409.7	421.3	421.3	419.7
72.5°	350.6	350.2	364.7	364.7	365.7
75°	254.5	266.0	281.5	283.1	283.1
77.5°	169.9	190.3	207.3	208.0	207.6
80°	121.3	144.4	160.1	163.4	161.8
82.5°	82.2	106.6	119.7	123.0	121.3
85°	37.1	56.9	67.4	69.1	67.4
87.5°	11.0	23.4	28.4	28.7	26.1
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°	<i>110.4</i>	140.8	378.3	739.6	811.1
115°	<i>126.8</i>	154.0	353.7	703.7	801.6
117.5°	<i>142.3</i>	168.2	338.1	652.9	763.1
120°	<i>152.6</i>	177.8	330.9	618.8	728.3
122.5°	<i>161.3</i>	186.5	326.2	584.6	690.2
125°	<i>174.4</i>	198.6	320.0	539.2	636.1
127.5°	<i>186.1</i>	210.1	316.7	504.8	588.0
130°	<i>193.2</i>	216.5	315.1	483.2	557.8
132.5°	<i>200.3</i>	223.6	313.5	464.8	530.9
135°	<i>210.1</i>	233.3	311.1	439.2	495.4
137.5°	<i>220.6</i>	241.7	309.9	416.6	463.9
140°	<i>226.9</i>	247.2	309.1	402.2	444.9
142.5°	<i>233.2</i>	252.0	308.3	391.0	426.6
145°	<i>242.8</i>	260.2	307.2	373.2	401.3
147.5°	<i>253.5</i>	268.4	306.2	359.2	381.3
150°	<i>260.6</i>	273.2	306.2	351.1	368.6
152.5°	<i>266.1</i>	277.2	305.4	343.9	358.3
155°	<i>274.5</i>	284.1	305.2	335.1	344.8
157.5°	<i>282.6</i>	290.1	305.2	329.1	336.5
160°	<i>287.3</i>	294.1	305.2	325.1	330.9
162.5°	<i>292.1</i>	297.3	306.0	321.9	326.2
165°	<i>297.2</i>	301.1	306.2	319.1	320.0
167.5°	<i>302.6</i>	304.5	307.2	315.7	316.5
170°	<i>304.2</i>	306.1	307.2	314.1	314.1
172.5°	<i>305.8</i>	306.9	307.2	312.5	312.5
175°	<i>308.1</i>	309.1	307.2	311.1	310.1
177.5°	<i>308.9</i>	308.9	306.6	309.7	308.1
180°	<i>308.1</i>	308.1	308.1	308.1	308.1

(END OF REPORT)