

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: P561510

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561510
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7678.9 lumens
Efficiency: N/A
Efficacy: 107.5 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

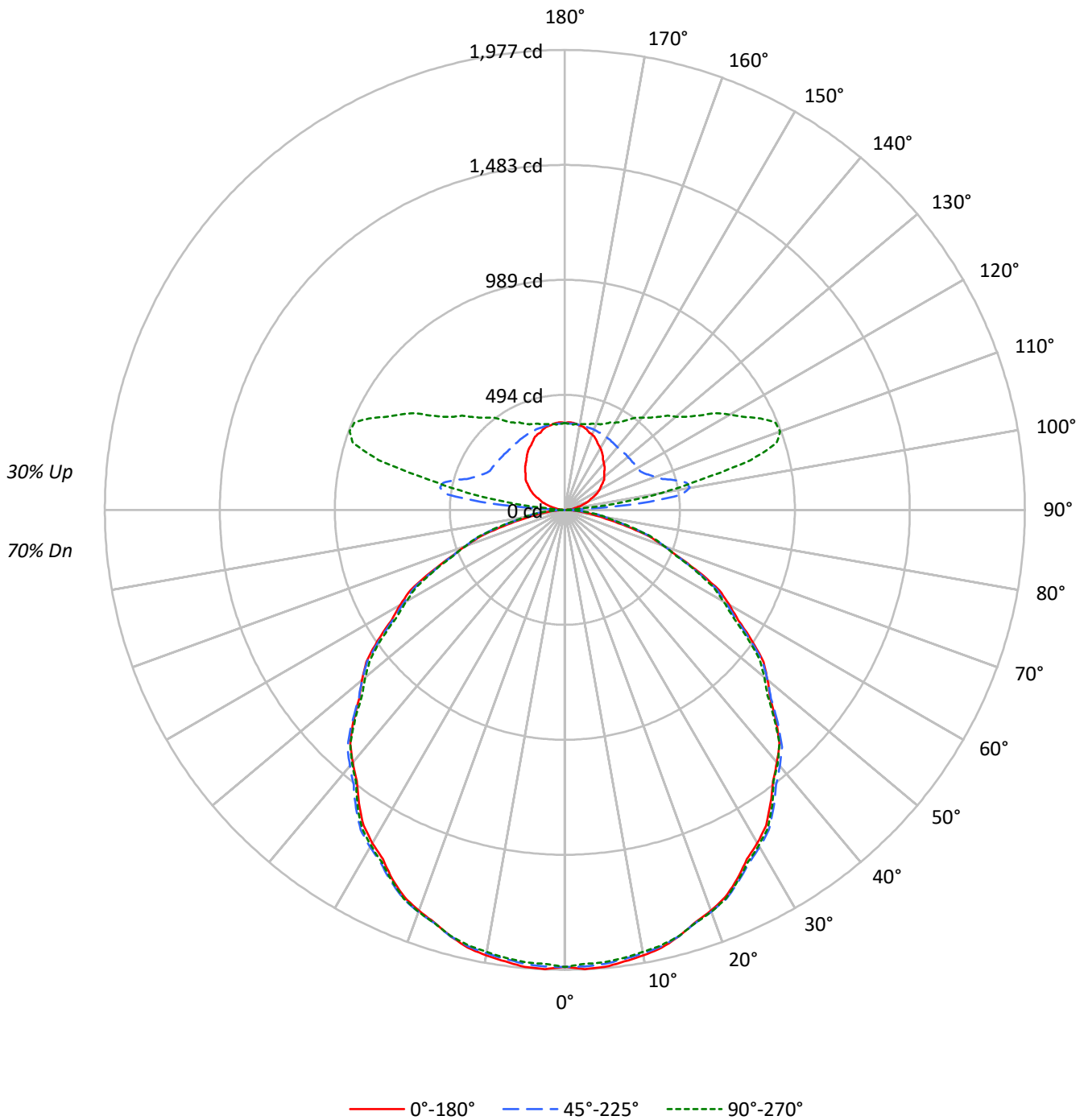
Input Watts (W): 71.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
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	75	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	51	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	46	43	46	42	39	36
5	71	59	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	37	33	30	27
7	61	48	40	34	58	46	38	33	42	35	31	38	33	29	34	30	26	24
8	57	44	36	30	53	42	35	29	38	32	27	35	29	26	31	27	24	21
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	29	24	47	35	28	24	32	26	22	30	24	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18129	18129	18129
5°	18266	18148	18080
10°	18222	18137	18085
15°	18126	18126	18108
20°	18007	18060	18060
25°	17836	17966	17911
30°	17620	17833	17755
35°	17358	17623	17501
40°	17070	17311	17136
45°	16760	16879	16618
50°	16321	16321	16060
55°	15804	15600	15365
60°	15041	14738	14504
65°	13902	13625	13505
70°	12171	12271	12220
75°	9792	10830	10897
80°	6960	9181	9282
85°	4234	7707	7707



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.0	2.4
10°-20°	533.7	6.9
20°-30°	808.2	10.5
30°-40°	968.9	12.6
40°-50°	987.9	12.9
50°-60°	862.4	11.2
60°-70°	617.4	8.0
70°-80°	318.0	4.1
80°-90°	80.4	1.0
90°-100°	169.9	2.2
100°-110°	483.4	6.3
110°-120°	463.2	6.0
120°-130°	366.6	4.8
130°-140°	294.2	3.8
140°-150°	230.4	3.0
150°-160°	168.5	2.2
160°-170°	104.4	1.4
170°-180°	35.4	0.5
0°-30°	1527.8	19.9
0°-40°	2496.7	32.5
0°-60°	4347.0	56.6
0°-90°	5362.8	69.8
90°-120°	1116.5	14.5
90°-150°	2007.7	26.1
90°-180°	2316.0	30.2
0°-180°	7678.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1965	1965	1965	1965	1965	
5°	1972	1953	1960	1954	1952	187
15°	1898	1882	1898	1898	1896	535
25°	1752	1740	1765	1759	1759	806
35°	1541	1538	1565	1554	1554	964
45°	1284	1281	1294	1277	1274	989
55°	982	970	970	955	955	876
65°	637	623	624	619	619	630
75°	275	287	304	306	306	297
85°	40	61	73	75	73	54
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	

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CATALOG NUMBER: SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1965.0	1965.0	1965.0	1965.0	1965.0
2.5°	1976.6	1959.5	1965.0	1960.5	1953.3
5°	1972.3	1952.7	1959.5	1954.0	1952.2
7.5°	1958.1	1938.5	1947.5	1943.8	1942.1
10°	1945.0	1925.4	1935.9	1932.2	1930.4
12.5°	1927.5	1909.4	1921.3	1917.7	1917.3
15°	1897.7	1881.7	1897.7	1897.6	1895.8
17.5°	1860.2	1845.6	1862.7	1863.8	1862.7
20°	1834.0	1818.0	1839.4	1837.7	1839.4
22.5°	1802.0	1788.8	1811.8	1807.1	1808.9
25°	1752.1	1739.7	1764.8	1759.4	1759.4
27.5°	1693.2	1684.3	1711.7	1705.9	1705.9
30°	1653.9	1645.0	1673.9	1666.6	1666.6
32.5°	1610.2	1604.1	1631.7	1622.9	1622.9
35°	1541.1	1537.5	1564.7	1553.8	1553.8
37.5°	1469.7	1466.5	1491.2	1478.0	1473.7
40°	1417.3	1415.6	1437.3	1422.8	1422.8
42.5°	1364.9	1363.2	1382.0	1364.6	1364.6
45°	1284.5	1281.0	1293.6	1277.2	1273.6
47.5°	1196.8	1193.3	1201.2	1183.3	1181.5
50°	1137.1	1133.6	1137.1	1120.7	1118.9
52.5°	1076.0	1069.6	1070.2	1053.8	1053.4
55°	982.5	970.0	969.8	955.2	955.2
57.5°	883.5	867.1	868.6	856.2	854.4
60°	815.1	797.3	798.7	787.8	786.0
62.5°	748.1	727.5	731.8	719.4	719.0
65°	636.8	622.6	624.1	618.6	618.6
67.5°	529.8	516.7	526.2	521.8	521.4
70°	451.2	442.3	454.9	454.8	453.0
72.5°	378.4	378.1	393.7	393.7	394.8
75°	274.7	287.2	303.8	305.7	305.7
77.5°	183.4	205.5	223.8	224.5	224.2
80°	131.0	155.9	172.8	176.4	174.7
82.5°	88.8	115.1	129.2	132.8	131.0
85°	40.0	61.4	72.8	74.6	72.8
87.5°	11.6	24.5	29.1	29.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)