

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: P561511

Luminaire Tested: **SQ4-PC3-050U-125D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561511
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 (6500K)
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 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7751.7 lumens
Efficiency: N/A
Efficacy: 109.0 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

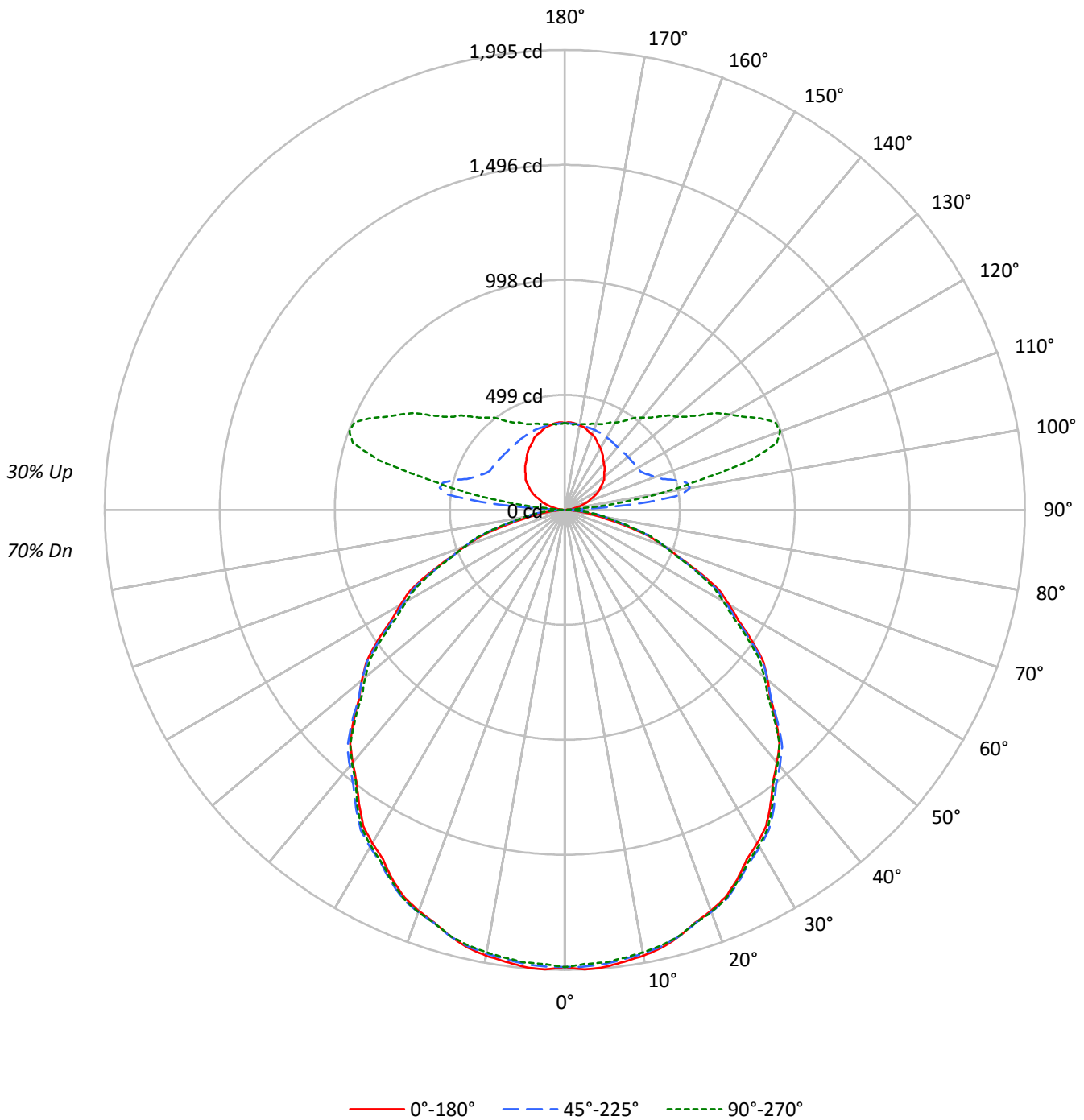
Input Watts (W): 71.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	18301	18301	18301
5°	18440	18320	18252
10°	18394	18308	18256
15°	18298	18298	18280
20°	18178	18232	18232
25°	18005	18137	18081
30°	17786	18001	17923
35°	17522	17790	17666
40°	17232	17476	17299
45°	16919	17039	16776
50°	16476	16476	16214
55°	15953	15746	15511
60°	15183	14878	14640
65°	14033	13754	13633
70°	12287	12387	12336
75°	9885	10933	11001
80°	7024	9271	9367
85°	4277	7781	7781



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	187.7	2.4
10°-20°	538.7	6.9
20°-30°	815.8	10.5
30°-40°	978.1	12.6
40°-50°	997.3	12.9
50°-60°	870.6	11.2
60°-70°	623.3	8.0
70°-80°	321.0	4.1
80°-90°	81.2	1.0
90°-100°	171.5	2.2
100°-110°	488.0	6.3
110°-120°	467.6	6.0
120°-130°	370.1	4.8
130°-140°	297.0	3.8
140°-150°	232.5	3.0
150°-160°	170.1	2.2
160°-170°	105.4	1.4
170°-180°	35.8	0.5
0°-30°	1542.3	19.9
0°-40°	2520.4	32.5
0°-60°	4388.2	56.6
0°-90°	5413.7	69.8
90°-120°	1127.1	14.5
90°-150°	2026.7	26.1
90°-180°	2338.0	30.2
0°-180°	7751.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1984	1984	1984	1984	1984	
5°	1991	1971	1978	1973	1971	189
15°	1916	1900	1916	1916	1914	540
25°	1769	1756	1782	1776	1776	814
35°	1556	1552	1580	1568	1568	973
45°	1297	1293	1306	1289	1286	998
55°	992	979	979	964	964	884
65°	643	628	630	624	624	636
75°	277	290	307	309	309	300
85°	40	62	74	75	74	55
90°	0	0	0	0	0	2
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1983.6	1983.6	1983.6	1983.6	1983.6
2.5°	1995.4	1978.1	1983.6	1979.0	1971.9
5°	1991.0	1971.2	1978.1	1972.6	1970.8
7.5°	1976.6	1956.9	1966.0	1962.3	1960.5
10°	1963.4	1943.7	1954.2	1950.5	1948.7
12.5°	1945.8	1927.5	1939.5	1935.9	1935.5
15°	1915.7	1899.5	1915.7	1915.6	1913.8
17.5°	1877.8	1863.1	1880.4	1881.5	1880.4
20°	1851.4	1835.2	1856.9	1855.1	1856.9
22.5°	1819.0	1805.8	1829.0	1824.2	1826.0
25°	1768.7	1756.2	1781.6	1776.1	1776.1
27.5°	1709.2	1700.2	1727.9	1722.1	1722.1
30°	1669.5	1660.6	1689.7	1682.4	1682.4
32.5°	1625.5	1619.4	1647.1	1638.3	1638.3
35°	1555.7	1552.1	1579.5	1568.5	1568.5
37.5°	1483.7	1480.4	1505.3	1492.0	1487.7
40°	1430.8	1429.0	1451.0	1436.3	1436.3
42.5°	1377.9	1376.1	1395.1	1377.5	1377.5
45°	1296.7	1293.1	1305.9	1289.3	1285.7
47.5°	1208.2	1204.6	1212.6	1194.5	1192.7
50°	1147.9	1144.3	1147.9	1131.4	1129.6
52.5°	1086.2	1079.7	1080.3	1063.8	1063.4
55°	991.8	979.2	978.9	964.3	964.3
57.5°	891.9	875.4	876.8	864.3	862.5
60°	822.8	804.9	806.3	795.2	793.4
62.5°	755.2	734.4	738.7	726.2	725.9
65°	642.8	628.5	630.0	624.5	624.5
67.5°	534.8	521.6	531.2	526.8	526.4
70°	455.5	446.5	459.2	459.1	457.3
72.5°	382.0	381.7	397.5	397.5	398.6
75°	277.3	289.9	306.7	308.6	308.6
77.5°	185.1	207.4	225.9	226.6	226.3
80°	132.2	157.4	174.5	178.1	176.3
82.5°	89.6	116.2	130.4	134.0	132.2
85°	40.4	62.0	73.5	75.3	73.5
87.5°	11.8	24.7	29.4	29.3	26.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)