

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: P562419

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562419
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-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8857.9 lumens
Efficiency: N/A
Efficacy: 121.0 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-Indirect

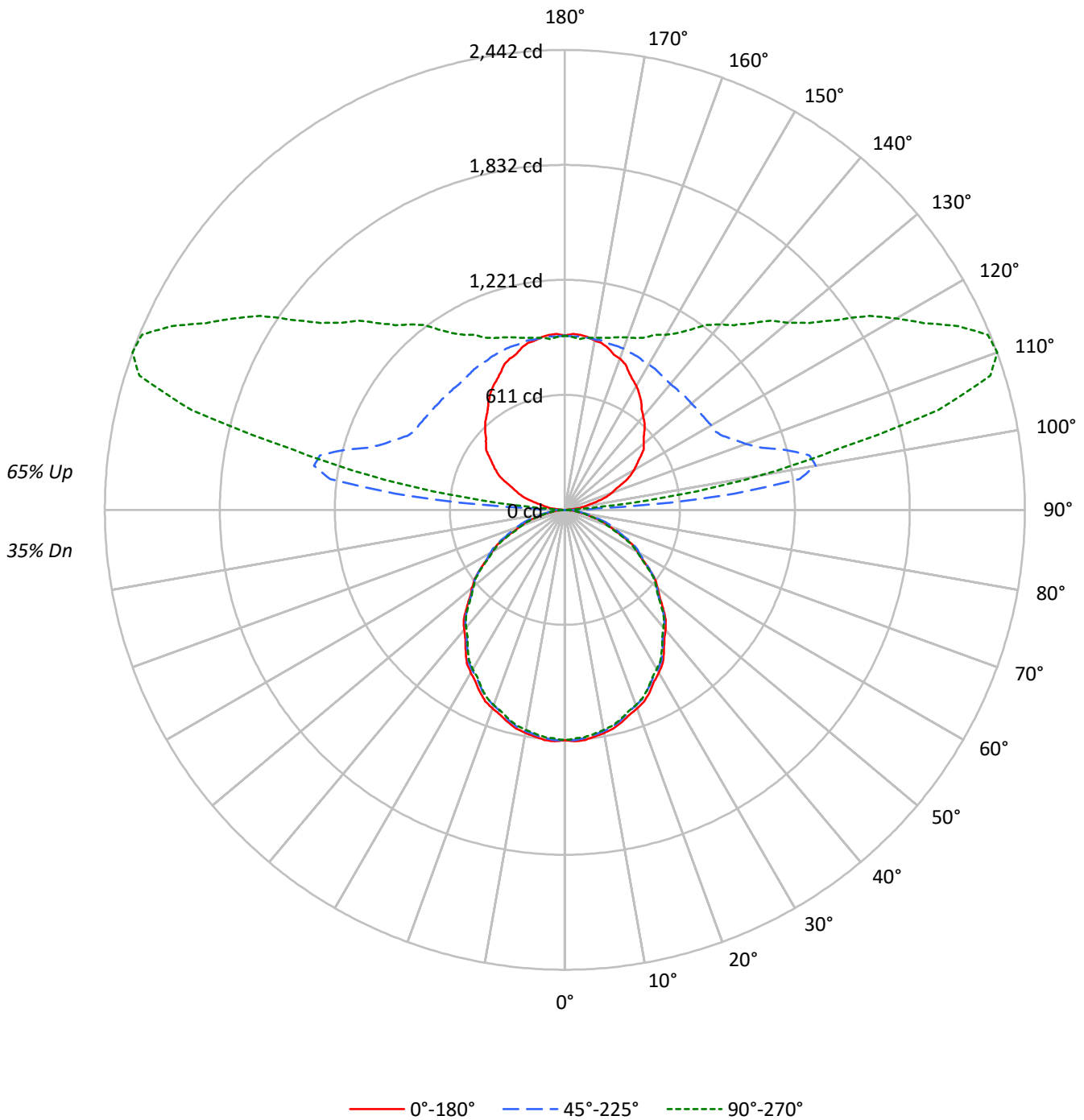
Input Watts (W): 73.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P562419

CATALOG NUMBER: SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

Luminous Intensity Polar Plot





TEST NUMBER: P562419

CATALOG NUMBER: SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	38	37	36	30
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18
5	66	55	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	21	19	17	14
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15	12
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11286	11286	11286
5°	11360	11270	11220
10°	11269	11179	11118
15°	11150	11026	10984
20°	11016	10847	10826
25°	10863	10666	10632
30°	10633	10472	10403
35°	10331	10185	10124
40°	10009	9853	9813
45°	9619	9492	9451
50°	9221	9143	9081
55°	8791	8791	8651
60°	8254	8412	8115
65°	7554	7929	7366
70°	6658	7297	6485
75°	5686	6531	5532
80°	4410	5499	4468
85°	2848	4224	3769



TEST NUMBER: P562419

CATALOG NUMBER: SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.2	1.3
10°-20°	325.2	3.7
20°-30°	482.4	5.4
30°-40°	564.5	6.4
40°-50°	562.0	6.3
50°-60°	485.3	5.5
60°-70°	349.3	3.9
70°-80°	183.2	2.1
80°-90°	45.4	0.5
90°-100°	421.5	4.8
100°-110°	1199.2	13.5
110°-120°	1149.0	13.0
120°-130°	909.4	10.3
130°-140°	729.9	8.2
140°-150°	571.4	6.5
150°-160°	418.1	4.7
160°-170°	259.0	2.9
170°-180°	87.9	1.0
0°-30°	922.9	10.4
0°-40°	1487.3	16.8
0°-60°	2534.6	28.6
0°-90°	3112.5	35.1
90°-120°	2769.7	31.3
90°-150°	4980.4	56.2
90°-180°	5745.0	64.9
0°-180°	8857.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1223	1223	1223	1223	1223	
5°	1227	1213	1217	1214	1212	116
15°	1167	1152	1154	1152	1150	329
25°	1067	1049	1048	1041	1044	491
35°	917	905	904	896	899	573
45°	737	731	728	725	724	569
55°	546	545	546	539	538	488
65°	346	356	363	349	337	343
75°	160	174	183	171	155	171
85°	27	35	40	38	36	36
90°	0	0	0	0	0	3
95°	46	182	816	282	174	52
105°	186	283	1222	2159	2052	197
115°	346	419	927	1963	2305	341
125°	489	542	884	1468	1755	438
135°	598	648	874	1240	1402	461
145°	705	741	881	1073	1169	440
155°	805	824	902	970	1009	372
165°	890	893	913	932	946	250
175°	932	927	923	918	911	88
180°	925	925	925	925	925	

TEST NUMBER: P562419

CATALOG NUMBER: SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1223.3	1223.3	1223.3	1223.3	1223.3
2.5°	1230.2	1220.1	1223.3	1220.6	1214.7
5°	1226.6	1212.9	1216.9	1213.6	1211.5
7.5°	1214.1	1201.4	1204.4	1200.9	1199.6
10°	1202.9	1190.2	1193.2	1188.8	1186.7
12.5°	1189.9	1176.4	1179.4	1175.0	1173.8
15°	1167.3	1152.5	1154.4	1152.2	1150.0
17.5°	1141.0	1126.0	1126.3	1122.9	1122.5
20°	1122.0	1106.2	1104.8	1100.5	1102.6
22.5°	1101.3	1084.7	1083.2	1077.3	1080.2
25°	1067.1	1049.1	1047.7	1041.3	1044.4
27.5°	1027.4	1009.7	1009.7	1000.7	1004.1
30°	998.1	981.2	983.0	972.3	976.5
32.5°	967.0	951.9	952.8	942.1	946.3
35°	917.2	904.6	904.3	895.7	898.9
37.5°	866.4	855.2	853.4	848.5	849.3
40°	831.0	821.5	818.1	814.8	814.8
42.5°	793.9	785.3	781.9	779.5	778.6
45°	737.2	730.9	727.5	725.4	724.3
47.5°	681.2	675.3	672.4	670.8	669.8
50°	642.4	638.2	637.0	633.7	632.7
52.5°	603.6	601.1	599.9	595.8	594.7
55°	546.5	545.4	546.5	538.9	537.8
57.5°	487.0	488.6	492.1	481.9	479.4
60°	447.3	451.5	455.9	444.0	439.8
62.5°	406.8	413.5	419.7	406.0	400.1
65°	346.0	356.5	363.2	349.0	337.4
67.5°	287.3	300.4	308.5	293.1	280.0
70°	246.8	261.6	270.5	255.1	240.4
72.5°	211.5	227.9	235.2	220.6	205.9
75°	159.5	174.3	183.2	171.0	155.2
77.5°	113.2	127.1	134.5	123.9	110.8
80°	83.0	97.7	103.5	94.6	84.1
82.5°	58.8	71.1	75.0	69.7	62.5
85°	26.9	35.4	39.9	37.7	35.6
87.5°	6.9	12.8	16.4	16.4	17.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.1	74.6	173.0	50.4	38.0
95°	45.7	181.5	815.9	282.4	174.1
97.5°	84.1	212.7	1256.6	899.2	616.2
100°	110.8	231.1	1352.2	1369.7	1055.1
102.5°	140.3	251.0	1331.1	1753.2	1478.5
105°	186.4	282.7	1222.1	2158.7	2052.1
107.5°	233.2	319.5	1094.8	2273.0	2367.9
110°	265.5	346.3	1021.6	2229.2	2442.4

TEST NUMBER: P562419

CATALOG NUMBER: SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (5000K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	296.5	373.2	972.4	2125.8	2429.8
115°	346.4	418.6	926.7	1963.1	2305.3
117.5°	390.4	458.1	899.6	1785.3	2147.7
120°	425.5	482.3	896.8	1683.7	2031.0
122.5°	453.7	510.4	889.8	1594.5	1917.0
125°	488.8	542.1	884.5	1467.8	1754.9
127.5°	527.2	577.0	881.7	1392.1	1628.7
130°	546.9	596.7	877.5	1339.3	1545.7
132.5°	568.0	616.5	877.5	1298.2	1488.0
135°	597.9	647.7	873.9	1239.8	1401.5
137.5°	626.0	674.5	873.6	1190.5	1330.1
140°	647.1	697.0	872.2	1149.5	1283.6
142.5°	671.0	712.6	876.4	1116.9	1237.2
145°	705.1	741.2	881.0	1073.1	1169.4
147.5°	734.3	769.4	888.7	1028.8	1112.0
150°	759.6	783.7	891.5	1014.2	1072.6
152.5°	779.3	804.8	894.3	994.4	1048.7
155°	805.4	824.3	902.1	969.8	1009.3
157.5°	837.7	849.1	903.8	958.6	986.8
160°	854.6	863.2	910.9	950.1	974.2
162.5°	864.4	874.4	912.3	942.9	961.5
165°	889.8	893.2	912.6	932.3	946.0
167.5°	907.0	903.9	920.7	929.6	935.1
170°	912.6	910.9	917.9	919.8	926.7
172.5°	925.3	919.4	922.1	917.0	922.5
175°	932.0	926.8	923.2	917.7	910.9
177.5°	934.8	926.5	922.1	916.5	917.9
180°	924.9	924.9	924.9	924.9	924.9

(END OF REPORT)