

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: P563342

Luminaire Tested: **SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563342
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

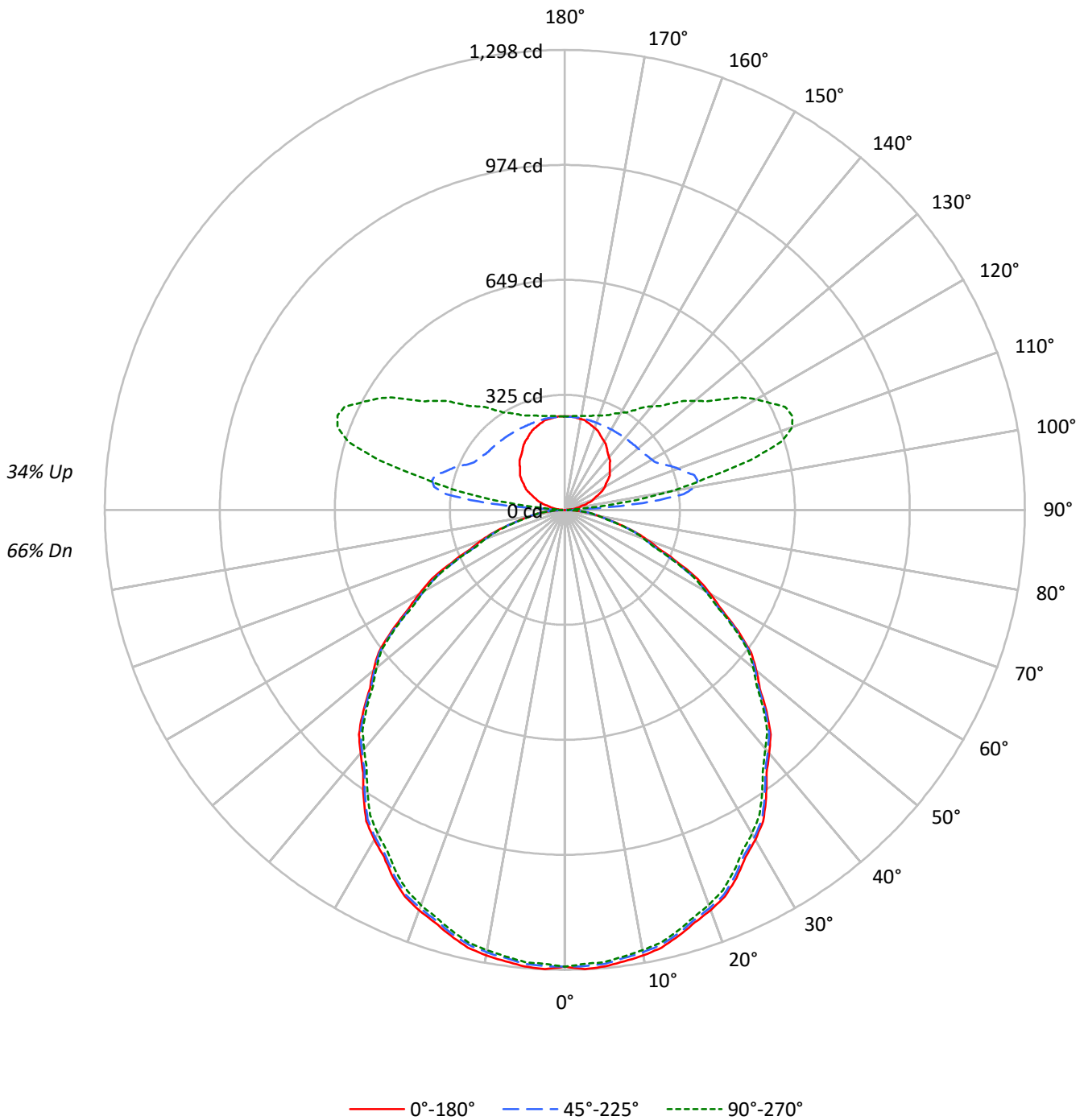
Lumens per Lamp: N/A
Luminaire Lumens: 5023.2 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.1
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



TEST NUMBER: P563342
CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563342

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4

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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	71	71	71	66
1	102	97	93	90	95	92	88	85	81	79	76	72	70	68	63	61	60	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	68	62	79	71	64	59	63	58	54	56	52	49	49	46	44	40
4	78	67	59	52	73	63	56	50	56	51	46	50	46	42	44	41	38	35
5	71	60	51	45	67	56	49	43	51	44	40	45	40	36	40	36	33	30
6	66	54	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	35	57	46	39	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	31	53	42	35	30	38	32	27	34	29	25	30	26	23	21
9	53	40	33	27	50	38	31	27	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	29	24	32	26	22	29	24	21	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11896	11896	11896
5°	11983	11910	11869
10°	11964	11878	11826
15°	11884	11819	11754
20°	11806	11739	11650
25°	11665	11585	11470
30°	11449	11389	11245
35°	11149	11074	10933
40°	10793	10725	10602
45°	10498	10425	10321
50°	10122	10056	9960
55°	9598	9471	9397
60°	8737	8486	8446
65°	7698	7377	7353
70°	6647	6372	6372
75°	5721	5639	5557
80°	5042	5106	4984
85°	3949	4308	4308



TEST NUMBER: P563342

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	2.4
10°-20°	348.1	6.9
20°-30°	521.5	10.4
30°-40°	611.6	12.2
40°-50°	613.6	12.2
50°-60°	523.4	10.4
60°-70°	341.4	6.8
70°-80°	171.3	3.4
80°-90°	48.4	1.0
90°-100°	126.6	2.5
100°-110°	343.9	6.8
110°-120°	353.6	7.0
120°-130°	282.7	5.6
130°-140°	222.2	4.4
140°-150°	170.3	3.4
150°-160°	122.5	2.4
160°-170°	74.9	1.5
170°-180°	25.2	0.5
0°-30°	991.5	19.7
0°-40°	1603.2	31.9
0°-60°	2740.1	54.6
0°-90°	3301.2	65.7
90°-120°	824.1	16.4
90°-150°	1499.3	29.8
90°-180°	1722.0	34.3
0°-180°	5023.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1289	1289	1289	1289	1289	
5°	1294	1282	1286	1282	1282	123
15°	1244	1232	1237	1233	1231	351
25°	1146	1133	1138	1128	1127	527
35°	990	980	983	972	971	618
45°	805	799	799	791	791	620
55°	597	594	589	585	584	530
65°	353	346	338	336	337	352
75°	160	160	158	157	156	174
85°	37	41	41	41	41	44
90°	1	3	6	8	8	3
95°	19	69	220	96	64	20
105°	61	95	378	576	542	65
115°	108	132	303	602	686	107
125°	149	170	274	462	544	133
135°	180	200	266	376	424	139
145°	208	223	263	319	343	130
155°	235	243	261	287	295	108
165°	254	258	262	273	274	72
175°	264	265	263	266	265	25
180°	264	264	264	264	264	

TEST NUMBER: P563342

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1289.4	1289.4	1289.4	1289.4	1289.4
2.5°	1297.5	1286.9	1289.4	1287.5	1282.2
5°	1293.9	1281.8	1286.0	1281.5	1281.5
7.5°	1285.1	1271.8	1276.1	1271.5	1271.3
10°	1277.0	1263.7	1267.9	1263.4	1262.3
12.5°	1265.2	1252.0	1257.1	1251.7	1251.4
15°	1244.2	1232.0	1237.4	1232.8	1230.6
17.5°	1220.5	1207.2	1213.7	1207.3	1206.5
20°	1202.4	1189.1	1195.6	1186.6	1186.6
22.5°	1180.7	1167.4	1174.8	1163.1	1163.1
25°	1145.9	1132.6	1138.0	1127.8	1126.7
27.5°	1104.5	1091.5	1097.1	1085.5	1085.3
30°	1074.7	1062.5	1069.0	1056.6	1055.5
32.5°	1042.1	1030.9	1035.6	1023.1	1022.0
35°	989.9	980.0	983.2	971.8	970.7
37.5°	935.0	924.8	928.5	918.7	918.3
40°	896.1	889.5	890.5	882.5	880.3
42.5°	860.0	852.5	853.4	845.5	845.1
45°	804.6	799.1	799.0	791.0	791.0
47.5°	745.8	741.6	740.4	733.9	733.6
50°	705.2	701.8	700.6	695.0	693.9
52.5°	662.7	661.1	657.2	652.5	652.3
55°	596.7	594.5	588.8	585.3	584.2
57.5°	525.0	520.6	514.2	509.2	510.1
60°	473.5	469.1	459.9	457.7	457.7
62.5°	423.8	418.5	409.3	406.2	408.0
65°	352.6	346.0	337.9	335.7	336.8
67.5°	287.9	282.0	273.2	273.2	272.3
70°	246.4	243.0	236.2	236.2	236.2
72.5°	209.3	207.7	202.7	202.7	201.8
75°	160.5	160.5	158.2	157.1	155.9
77.5°	120.2	120.7	119.6	118.4	116.4
80°	94.9	97.1	96.1	94.9	93.8
82.5°	71.4	73.6	73.5	71.4	71.2
85°	37.3	40.6	40.7	40.7	40.7
87.5°	10.1	14.1	15.7	16.0	16.9
90°	0.8	3.3	5.9	7.6	7.6
92.5°	7.6	34.7	60.2	25.9	21.9
95°	18.7	69.2	220.5	96.0	64.4
97.5°	30.9	76.5	338.0	263.0	184.7
100°	39.0	81.3	374.0	379.1	306.1
102.5°	47.1	86.1	383.5	468.8	404.5
105°	61.1	95.1	378.2	575.9	541.9
107.5°	75.5	105.5	356.3	631.1	640.6
110°	85.6	113.0	340.1	642.0	682.6



TEST NUMBER: P563342

CATALOG NUMBER: SQ4-PP3-050U-100D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	94.5	120.5	323.8	633.0	694.2
115°	108.5	131.8	302.7	602.3	686.0
117.5°	121.8	144.0	289.3	558.8	653.1
120°	130.6	152.2	283.2	529.6	623.3
122.5°	138.1	159.6	279.2	500.3	590.7
125°	149.2	170.0	273.9	461.5	544.4
127.5°	159.3	179.8	271.0	432.1	503.2
130°	165.4	185.3	269.7	413.6	477.4
132.5°	171.5	191.4	268.3	397.8	454.4
135°	179.8	199.7	266.3	375.9	424.0
137.5°	188.8	206.8	265.3	356.6	397.0
140°	194.2	211.6	264.6	344.3	380.8
142.5°	199.6	215.7	263.9	334.6	365.2
145°	207.8	222.7	262.9	319.4	343.4
147.5°	216.9	229.7	262.0	307.4	326.3
150°	223.0	233.8	262.0	300.5	315.5
152.5°	227.8	237.2	261.4	294.4	306.6
155°	234.9	243.2	261.2	286.8	295.1
157.5°	241.9	248.3	261.2	281.7	288.0
160°	245.9	251.7	261.2	278.3	283.2
162.5°	250.0	254.5	261.9	275.5	279.2
165°	254.4	257.7	262.0	273.1	273.9
167.5°	259.0	260.6	262.9	270.2	270.9
170°	260.3	262.0	262.9	268.8	268.8
172.5°	261.7	262.7	262.9	267.5	267.5
175°	263.7	264.6	262.9	266.3	265.4
177.5°	264.4	264.4	262.4	265.1	263.7
180°	263.7	263.7	263.7	263.7	263.7

(END OF REPORT)