

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: P563314

Luminaire Tested: **SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563314  
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-075D-935-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

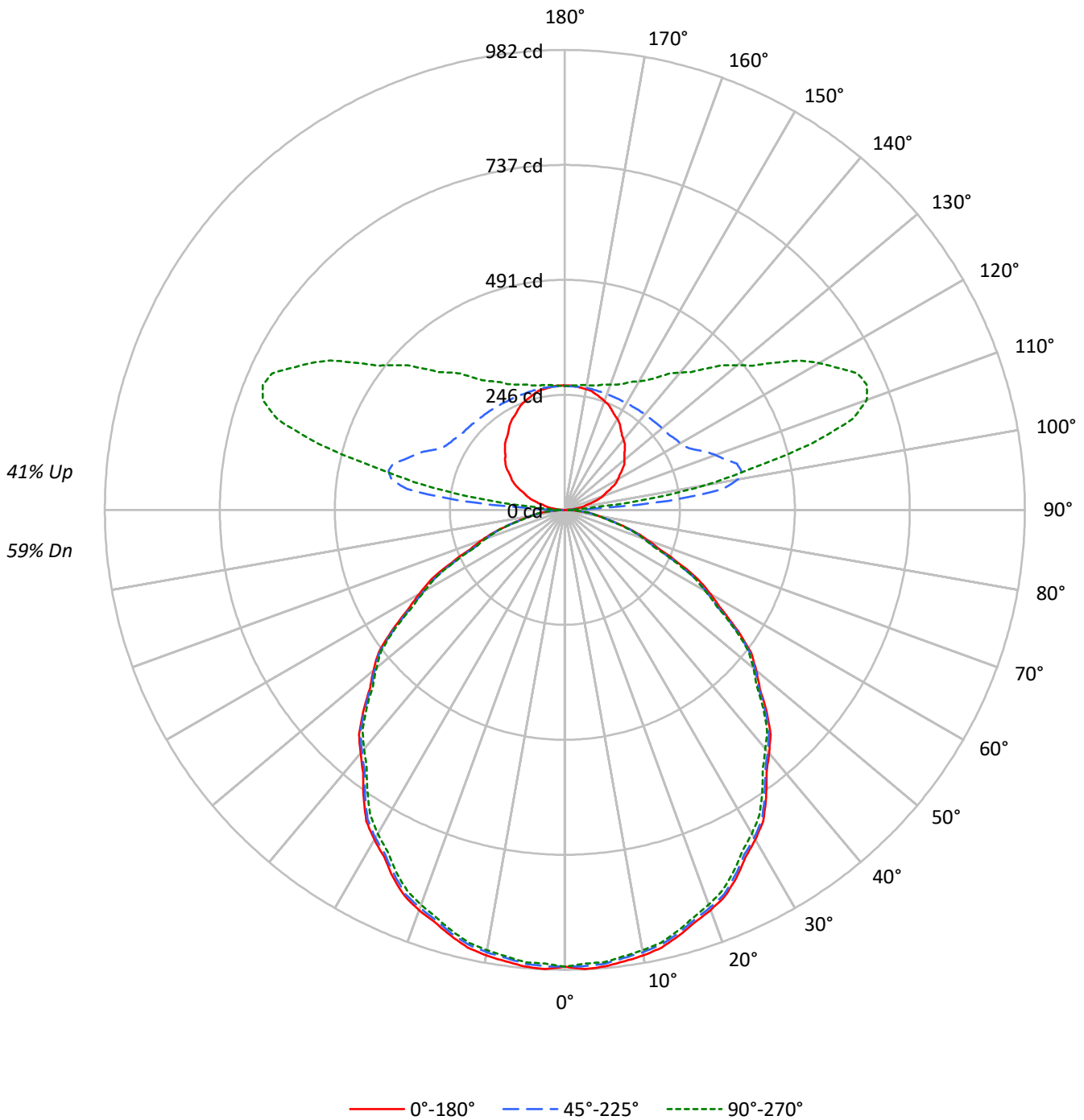
Lumens per Lamp: N/A  
Luminaire Lumens: 4228.2 lumens  
Efficiency: N/A  
Efficacy: 116.5 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 36.3  
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: P563314  
CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4

### Luminous Intensity Polar Plot





TEST NUMBER: P563314

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59		
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50		
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42		
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36		
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31		
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27		
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24		
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21		
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19		
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17		
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	8999	8999	8999
5°	9065	9010	8978
10°	9050	8985	8946
15°	8990	8941	8892
20°	8931	8880	8813
25°	8824	8763	8676
30°	8661	8615	8506
35°	8434	8376	8271
40°	8165	8113	8020
45°	7941	7886	7808
50°	7656	7607	7534
55°	7261	7164	7110
60°	6610	6420	6388
65°	5822	5580	5560
70°	5028	4821	4821
75°	4328	4267	4206
80°	3815	3863	3772
85°	2985	3260	3260



TEST NUMBER: P563314

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.2	2.2
10°-20°	263.4	6.2
20°-30°	394.5	9.3
30°-40°	462.7	10.9
40°-50°	464.1	11.0
50°-60°	395.9	9.4
60°-70°	258.2	6.1
70°-80°	129.6	3.1
80°-90°	36.9	0.9
90°-100°	127.2	3.0
100°-110°	345.7	8.2
110°-120°	355.4	8.4
120°-130°	284.2	6.7
130°-140°	223.3	5.3
140°-150°	171.2	4.0
150°-160°	123.1	2.9
160°-170°	75.3	1.8
170°-180°	25.4	0.6
0°-30°	750.0	17.7
0°-40°	1212.7	28.7
0°-60°	2072.8	49.0
0°-90°	2497.5	59.1
90°-120°	828.3	19.6
90°-150°	1507.0	35.6
90°-180°	1731.0	40.9
0°-180°	4228.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	975	975	975	975	975	
5°	979	970	973	969	969	93
15°	941	932	936	933	931	266
25°	867	857	861	853	852	399
35°	749	741	744	735	734	468
45°	609	604	604	598	598	469
55°	451	450	445	443	442	401
65°	267	262	256	254	255	266
75°	121	121	120	119	118	132
85°	28	31	31	31	31	33
90°	1	3	6	8	8	2
95°	19	70	222	96	65	20
105°	61	96	380	579	545	65
115°	109	132	304	605	690	108
125°	150	171	275	464	547	134
135°	181	201	268	378	426	140
145°	209	224	264	321	345	131
155°	236	244	262	288	297	109
165°	256	259	263	274	275	72
175°	265	266	264	268	267	25
180°	265	265	265	265	265	



TEST NUMBER: P563314

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	975.4	975.4	975.4	975.4	975.4
2.5°	981.5	973.5	975.4	973.9	969.9
5°	978.8	969.6	972.8	969.4	969.4
7.5°	972.1	962.1	965.3	961.9	961.7
10°	966.0	955.9	959.1	955.7	954.9
12.5°	957.1	947.1	950.9	946.8	946.7
15°	941.2	932.0	936.1	932.6	930.9
17.5°	923.2	913.2	918.1	913.3	912.6
20°	909.6	899.5	904.4	897.6	897.6
22.5°	893.1	883.1	888.7	879.8	879.8
25°	866.8	856.8	860.8	853.1	852.3
27.5°	835.5	825.7	829.9	821.2	821.0
30°	813.0	803.8	808.7	799.3	798.4
32.5°	788.3	779.8	783.4	774.0	773.1
35°	748.8	741.3	743.7	735.1	734.3
37.5°	707.3	699.6	702.3	695.0	694.6
40°	677.9	672.9	673.6	667.6	665.9
42.5°	650.5	644.9	645.6	639.6	639.3
45°	608.6	604.5	604.4	598.4	598.4
47.5°	564.2	561.0	560.1	555.1	555.0
50°	533.4	530.9	530.0	525.7	524.9
52.5°	501.3	500.1	497.2	493.6	493.4
55°	451.4	449.7	445.4	442.8	442.0
57.5°	397.2	393.8	389.0	385.2	385.9
60°	358.2	354.8	347.9	346.2	346.2
62.5°	320.6	316.6	309.6	307.3	308.6
65°	266.7	261.7	255.6	253.9	254.7
67.5°	217.8	213.3	206.7	206.7	206.0
70°	186.4	183.8	178.7	178.7	178.7
72.5°	158.3	157.1	153.4	153.3	152.7
75°	121.4	121.4	119.7	118.8	118.0
77.5°	91.0	91.3	90.4	89.6	88.0
80°	71.8	73.5	72.7	71.8	71.0
82.5°	54.0	55.7	55.6	54.0	53.9
85°	28.2	30.7	30.8	30.8	30.8
87.5°	7.7	10.9	12.1	12.5	13.2
90°	0.9	3.4	6.0	7.7	7.7
92.5°	7.7	34.8	60.5	26.0	22.0
95°	18.8	69.6	221.6	96.4	64.8
97.5°	31.0	76.9	339.7	264.3	185.6
100°	39.2	81.7	375.9	381.0	307.7
102.5°	47.4	86.6	385.4	471.2	406.6
105°	61.4	95.5	380.1	578.8	544.6
107.5°	75.9	106.0	358.2	634.4	643.9
110°	86.1	113.6	341.8	645.3	686.1

TEST NUMBER: P563314

CATALOG NUMBER: SQ4-PP3-050U-075D-935-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	95.0	121.1	325.4	636.2	697.7
115°	109.1	132.4	304.3	605.4	689.5
117.5°	122.4	144.7	290.8	561.6	656.5
120°	131.3	152.9	284.7	532.3	626.5
122.5°	138.8	160.4	280.6	502.9	593.7
125°	150.0	170.8	275.3	463.9	547.2
127.5°	160.1	180.7	272.4	434.3	505.8
130°	166.2	186.2	271.0	415.7	479.9
132.5°	172.3	192.3	269.7	399.8	456.7
135°	180.7	200.7	267.6	377.8	426.2
137.5°	189.7	207.9	266.6	358.4	399.1
140°	195.2	212.7	265.9	346.0	382.7
142.5°	200.6	216.8	265.2	336.3	367.0
145°	208.8	223.8	264.2	321.0	345.2
147.5°	218.0	230.9	263.4	309.0	328.0
150°	224.2	235.0	263.4	302.1	317.1
152.5°	228.9	238.4	262.7	295.9	308.2
155°	236.1	244.4	262.5	288.3	296.6
157.5°	243.1	249.6	262.5	283.1	289.5
160°	247.2	253.0	262.5	279.7	284.7
162.5°	251.3	255.8	263.2	276.9	280.6
165°	255.7	259.0	263.4	274.5	275.3
167.5°	260.3	262.0	264.2	271.6	272.2
170°	261.7	263.3	264.2	270.2	270.2
172.5°	263.0	264.0	264.2	268.8	268.8
175°	265.1	265.9	264.2	267.6	266.8
177.5°	265.8	265.8	263.7	266.4	265.1
180°	265.1	265.1	265.1	265.1	265.1

(END OF REPORT)