

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: P562646

Luminaire Tested: **SQ4-PC3-050U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

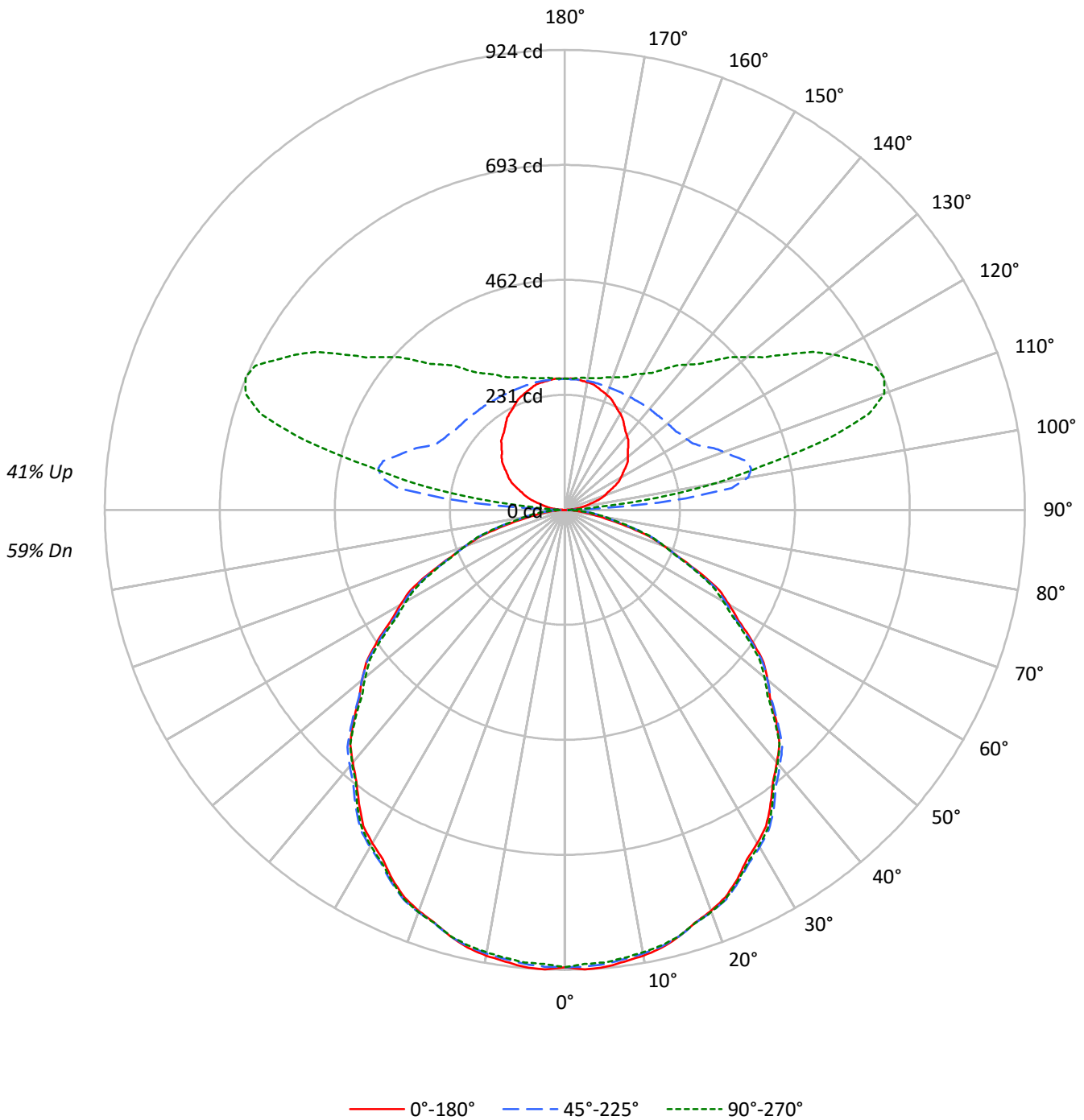
Lumens per Lamp: N/A
Luminaire Lumens: 4230.5 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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: P562646
CATALOG NUMBER: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P562646

CATALOG NUMBER: SQ4-PC3-050U-075D-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	50	30	10	0	
RCR																						
0	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59				
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50				
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42				
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36				
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30				
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26				
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23				
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20				
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18				
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16				
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



TEST NUMBER: P562646

CATALOG NUMBER: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.1
10°-20°	249.5	5.9
20°-30°	377.9	8.9
30°-40°	453.0	10.7
40°-50°	461.9	10.9
50°-60°	403.2	9.5
60°-70°	288.7	6.8
70°-80°	148.7	3.5
80°-90°	38.6	0.9
90°-100°	126.6	3.0
100°-110°	343.9	8.1
110°-120°	353.6	8.4
120°-130°	282.7	6.7
130°-140°	222.2	5.3
140°-150°	170.3	4.0
150°-160°	122.5	2.9
160°-170°	74.9	1.8
170°-180°	25.2	0.6
0°-30°	714.3	16.9
0°-40°	1167.3	27.6
0°-60°	2032.5	48.0
0°-90°	2508.5	59.3
90°-120°	824.1	19.5
90°-150°	1499.3	35.4
90°-180°	1722.0	40.7
0°-180°	4230.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	25
90°	1	3	6	8	8	2
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: P562646

CATALOG NUMBER: SQ4-PC3-050U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	924.2	916.2	918.8	916.6	913.3
5°	922.2	913.0	916.2	913.6	912.8
7.5°	915.5	906.4	910.6	908.9	908.0
10°	909.4	900.3	905.1	903.4	902.6
12.5°	901.2	892.8	898.3	896.6	896.5
15°	887.3	879.8	887.3	887.3	886.4
17.5°	869.8	862.9	870.9	871.4	870.9
20°	857.5	850.0	860.1	859.2	860.1
22.5°	842.5	836.4	847.1	844.9	845.8
25°	819.2	813.4	825.2	822.6	822.6
27.5°	791.7	787.5	800.3	797.6	797.6
30°	773.3	769.1	782.6	779.2	779.2
32.5°	752.9	750.0	762.9	758.8	758.8
35°	720.5	718.9	731.6	726.5	726.5
37.5°	687.2	685.7	697.2	691.1	689.1
40°	662.7	661.9	672.1	665.2	665.2
42.5°	638.2	637.4	646.2	638.0	638.0
45°	600.6	598.9	604.8	597.2	595.5
47.5°	559.6	557.9	561.6	553.3	552.4
50°	531.7	530.0	531.7	524.0	523.2
52.5°	503.1	500.1	500.4	492.7	492.6
55°	459.4	453.6	453.4	446.6	446.6
57.5°	413.1	405.4	406.1	400.3	399.5
60°	381.1	372.8	373.5	368.3	367.5
62.5°	349.8	340.2	342.2	336.4	336.2
65°	297.7	291.1	291.8	289.2	289.2
67.5°	247.7	241.6	246.0	244.0	243.8
70°	211.0	206.8	212.7	212.7	211.8
72.5°	176.9	176.8	184.1	184.1	184.6
75°	128.5	134.3	142.1	142.9	142.9
77.5°	85.8	96.1	104.6	105.0	104.8
80°	61.3	72.9	80.8	82.5	81.7
82.5°	41.5	53.8	60.4	62.1	61.3
85°	18.7	28.7	34.0	34.9	34.0
87.5°	5.6	12.1	14.8	15.1	13.8
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: P562646

CATALOG NUMBER: SQ4-PC3-050U-075D-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)