

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: P563102

Luminaire Tested: **SQ4-PC3-150U-050D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563102
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-050D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

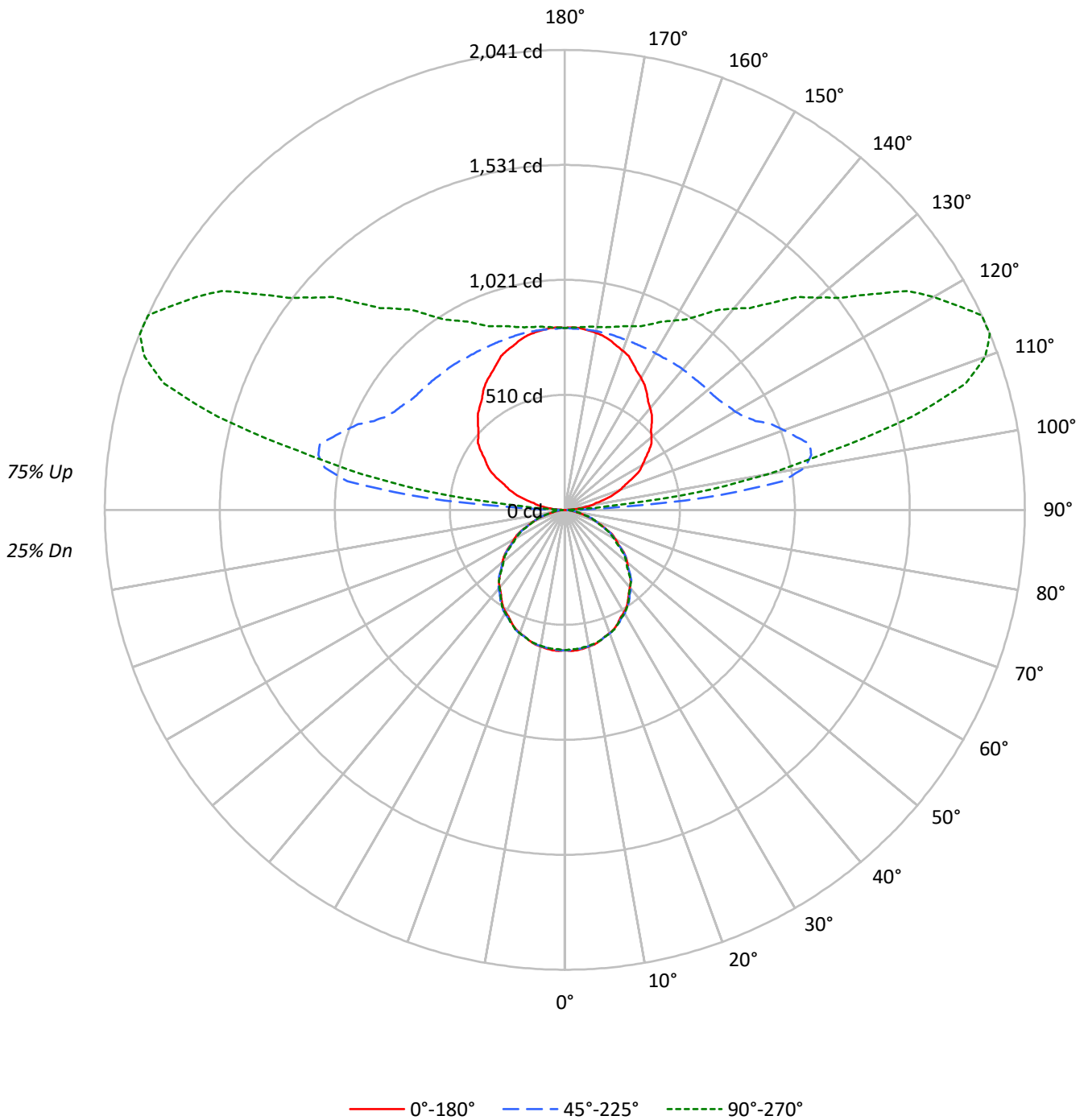
Lumens per Lamp: N/A
Luminaire Lumens: 6910.5 lumens
Efficiency: N/A
Efficacy: 124.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5752	5752	5752
5°	5795	5757	5736
10°	5780	5753	5737
15°	5750	5750	5744
20°	5712	5729	5729
25°	5658	5700	5681
30°	5590	5657	5633
35°	5507	5591	5552
40°	5415	5492	5437
45°	5317	5355	5271
50°	5177	5177	5095
55°	5014	4948	4874
60°	4772	4676	4600
65°	4410	4323	4283
70°	3860	3893	3876
75°	3108	3436	3458
80°	2210	2912	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	0.9
10°-20°	169.3	2.4
20°-30°	256.4	3.7
30°-40°	307.4	4.4
40°-50°	313.4	4.5
50°-60°	273.6	4.0
60°-70°	195.8	2.8
70°-80°	100.9	1.5
80°-90°	27.2	0.4
90°-100°	375.4	5.4
100°-110°	1014.9	14.7
110°-120°	1067.1	15.4
120°-130°	866.7	12.5
130°-140°	679.9	9.8
140°-150°	521.8	7.6
150°-160°	375.3	5.4
160°-170°	229.3	3.3
170°-180°	77.3	1.1
0°-30°	484.7	7.0
0°-40°	792.0	11.5
0°-60°	1379.0	20.0
0°-90°	1702.9	24.6
90°-120°	2457.4	35.6
90°-150°	4525.8	65.5
90°-180°	5208.0	75.4
0°-180°	6910.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	623	623	623	623	623	
5°	626	620	622	620	619	59
15°	602	597	602	602	601	170
25°	556	552	560	558	558	256
35°	489	488	496	493	493	306
45°	408	406	410	405	404	314
55°	312	308	308	303	303	278
65°	202	198	198	196	196	200
75°	87	91	96	97	97	94
85°	13	20	23	24	23	17
90°	2	5	11	12	11	4
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	623.4	623.4	623.4	623.4	623.4
2.5°	627.1	621.6	623.4	621.9	619.7
5°	625.7	619.5	621.6	619.9	619.3
7.5°	621.2	615.0	617.8	616.7	616.1
10°	617.0	610.8	614.1	613.0	612.4
12.5°	611.5	605.7	609.5	608.3	608.2
15°	602.0	596.9	602.0	602.0	601.4
17.5°	590.1	585.5	590.9	591.3	590.9
20°	581.8	576.7	583.5	583.0	583.5
22.5°	571.6	567.5	574.8	573.3	573.8
25°	555.8	551.9	559.9	558.1	558.1
27.5°	537.1	534.3	543.0	541.2	541.2
30°	524.7	521.8	531.0	528.7	528.7
32.5°	510.8	508.9	517.6	514.8	514.8
35°	488.9	487.7	496.4	492.9	492.9
37.5°	466.2	465.2	473.1	468.9	467.5
40°	449.6	449.1	456.0	451.4	451.4
42.5°	433.0	432.4	438.4	432.9	432.9
45°	407.5	406.4	410.4	405.2	404.0
47.5°	379.7	378.5	381.1	375.4	374.8
50°	360.7	359.6	360.7	355.5	355.0
52.5°	341.3	339.3	339.5	334.3	334.2
55°	311.7	307.7	307.6	303.0	303.0
57.5°	280.3	275.1	275.5	271.6	271.0
60°	258.6	252.9	253.4	249.9	249.3
62.5°	237.3	230.8	232.1	228.2	228.1
65°	202.0	197.5	198.0	196.2	196.2
67.5°	168.1	163.9	166.9	165.5	165.4
70°	143.1	140.3	144.3	144.3	143.7
72.5°	120.1	119.9	124.9	124.9	125.2
75°	87.2	91.1	96.4	97.0	97.0
77.5°	58.2	65.2	71.0	71.2	71.1
80°	41.6	49.5	54.8	56.0	55.4
82.5°	28.2	36.5	41.0	42.1	41.6
85°	12.7	19.5	23.1	23.7	23.1
87.5°	4.0	8.8	11.5	11.6	10.6
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)