

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: P564659

Luminaire Tested: **SQ4-PW1-050U-075D-935-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564659  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-PW1-050U-075D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

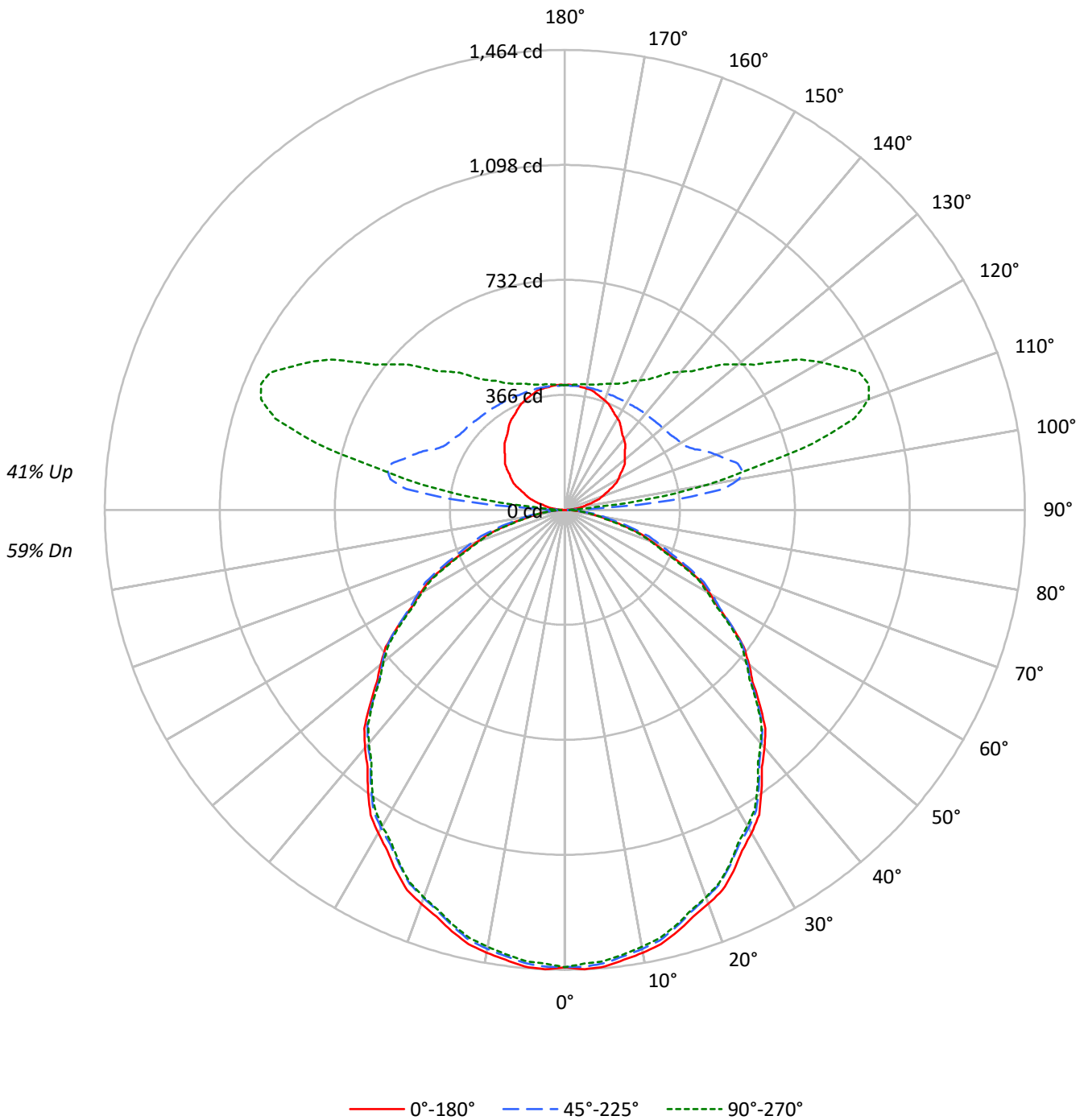
Lumens per Lamp: N/A  
Luminaire Lumens: 6301.4 lumens  
Efficiency: N/A  
Efficacy: 107.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 58.5  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	74	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	54	48	43	46	42	39	40	37	34	31
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15

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

	0°	45°	90°
0°	8954	8954	8954
5°	9012	8940	8901
10°	8939	8868	8820
15°	8845	8747	8714
20°	8740	8605	8588
25°	8617	8461	8434
30°	8435	8308	8253
35°	8196	8080	8032
40°	7940	7817	7785
45°	7631	7530	7497
50°	7315	7253	7204
55°	6974	6974	6863
60°	6548	6674	6437
65°	5992	6290	5842
70°	5282	5789	5143
75°	4511	5181	4389
80°	3500	4360	3542
85°	2265	3352	2985



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	137.1	2.2
10°-20°	387.0	6.1
20°-30°	574.1	9.1
30°-40°	671.7	10.7
40°-50°	668.7	10.6
50°-60°	577.5	9.2
60°-70°	415.7	6.6
70°-80°	218.0	3.5
80°-90°	55.6	0.9
90°-100°	190.9	3.0
100°-110°	518.5	8.2
110°-120°	533.1	8.5
120°-130°	426.2	6.8
130°-140°	334.9	5.3
140°-150°	256.8	4.1
150°-160°	184.7	2.9
160°-170°	112.9	1.8
170°-180°	38.1	0.6
0°-30°	1098.1	17.4
0°-40°	1769.9	28.1
0°-60°	3016.0	47.9
0°-90°	3705.3	58.8
90°-120°	1242.5	19.7
90°-150°	2260.4	35.9
90°-180°	2596.0	41.2
0°-180°	6301.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1456	1456	1456	1456	1456	
5°	1460	1443	1448	1444	1442	138
15°	1389	1372	1374	1371	1368	392
25°	1270	1248	1247	1239	1243	584
35°	1092	1076	1076	1066	1070	682
45°	877	870	866	863	862	677
55°	650	649	650	641	640	580
65°	412	424	432	415	401	408
75°	190	207	218	204	185	203
85°	32	42	48	45	42	42
90°	1	5	9	12	12	3
95°	28	104	332	145	97	30
105°	92	143	570	868	817	98
115°	164	199	456	908	1034	161
125°	225	256	413	696	821	201
135°	271	301	402	567	639	210
145°	313	336	396	482	518	197
155°	354	367	394	432	445	163
165°	384	389	395	412	413	108
175°	398	399	396	401	400	38
180°	398	398	398	398	398	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1455.7	1455.7	1455.7	1455.7	1455.7
2.5°	1463.9	1451.9	1455.7	1452.5	1445.5
5°	1459.6	1443.3	1448.0	1444.1	1441.6
7.5°	1444.7	1429.6	1433.1	1429.0	1427.5
10°	1431.3	1416.3	1419.8	1414.6	1412.1
12.5°	1416.0	1399.9	1403.4	1398.2	1396.7
15°	1389.0	1371.5	1373.6	1371.0	1368.5
17.5°	1357.7	1339.9	1340.3	1336.2	1335.7
20°	1335.2	1316.3	1314.6	1309.6	1312.1
22.5°	1310.5	1290.7	1289.0	1281.9	1285.4
25°	1269.7	1248.4	1246.7	1239.0	1242.8
27.5°	1222.5	1201.5	1201.5	1190.8	1194.8
30°	1187.7	1167.6	1169.7	1157.0	1162.0
32.5°	1150.7	1132.7	1133.8	1121.1	1126.1
35°	1091.5	1076.4	1076.1	1065.9	1069.7
37.5°	1030.9	1017.6	1015.5	1009.7	1010.7
40°	988.9	977.6	973.5	969.6	969.6
42.5°	944.7	934.5	930.4	927.5	926.5
45°	877.3	869.8	865.7	863.1	861.9
47.5°	810.6	803.6	800.1	798.2	797.0
50°	764.4	759.4	758.0	754.1	752.9
52.5°	718.2	715.2	713.9	709.0	707.7
55°	650.3	649.0	650.3	641.3	640.0
57.5°	579.5	581.5	585.6	573.5	570.5
60°	532.3	537.3	542.5	528.3	523.3
62.5°	484.0	492.1	499.4	483.1	476.1
65°	411.7	424.2	432.2	415.2	401.4
67.5°	341.9	357.5	367.1	348.8	333.2
70°	293.7	311.3	321.9	303.6	286.0
72.5°	251.6	271.2	279.9	262.5	245.0
75°	189.8	207.4	218.0	203.5	184.7
77.5°	134.7	151.2	160.1	147.4	131.8
80°	98.8	116.3	123.1	112.6	100.0
82.5°	70.0	84.6	89.3	82.9	74.4
85°	32.1	42.1	47.5	44.8	42.3
87.5°	8.5	16.2	21.3	21.8	22.8
90°	1.3	5.0	8.9	11.5	11.5
92.5°	11.5	52.3	90.8	39.0	33.0
95°	28.1	104.4	332.4	144.7	97.2
97.5°	46.5	115.3	509.6	396.5	278.5
100°	58.8	122.6	563.8	571.5	461.5
102.5°	71.1	129.8	578.1	706.9	609.8
105°	92.1	143.3	570.2	868.2	817.0
107.5°	113.8	159.0	537.2	951.5	965.8
110°	129.1	170.4	512.7	967.9	1029.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	142.4	181.7	488.1	954.3	1046.6
115°	163.6	198.7	456.4	908.1	1034.3
117.5°	183.6	217.1	436.2	842.4	984.7
120°	196.9	229.4	427.0	798.4	939.7
122.5°	208.1	240.6	420.9	754.3	890.6
125°	225.0	256.3	413.0	695.8	820.8
127.5°	240.1	271.1	408.6	651.4	758.7
130°	249.3	279.3	406.6	623.5	719.8
132.5°	258.5	288.5	404.5	599.8	685.0
135°	271.0	301.0	401.5	566.7	639.3
137.5°	284.6	311.8	399.9	537.6	598.6
140°	292.8	319.0	398.9	519.0	574.0
142.5°	301.0	325.2	397.9	504.5	550.5
145°	313.2	335.7	396.3	481.5	517.8
147.5°	327.0	346.3	395.1	463.5	492.0
150°	336.2	352.5	395.1	453.1	475.6
152.5°	343.4	357.7	394.0	443.8	462.3
155°	354.1	366.6	393.8	432.4	444.9
157.5°	364.6	374.4	393.8	424.7	434.2
160°	370.8	379.5	393.8	419.5	427.0
162.5°	376.9	383.7	394.8	415.4	420.9
165°	383.6	388.6	395.1	411.7	413.0
167.5°	390.5	393.0	396.3	407.4	408.4
170°	392.5	395.0	396.3	405.3	405.3
172.5°	394.5	396.0	396.3	403.2	403.2
175°	397.6	398.9	396.3	401.4	400.2
177.5°	398.6	398.6	395.6	399.6	397.6
180°	397.6	397.6	397.6	397.6	397.6

(END OF REPORT)