

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: P562414

Luminaire Tested: **SQ4-PW1-125U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562414  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-125U-075D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

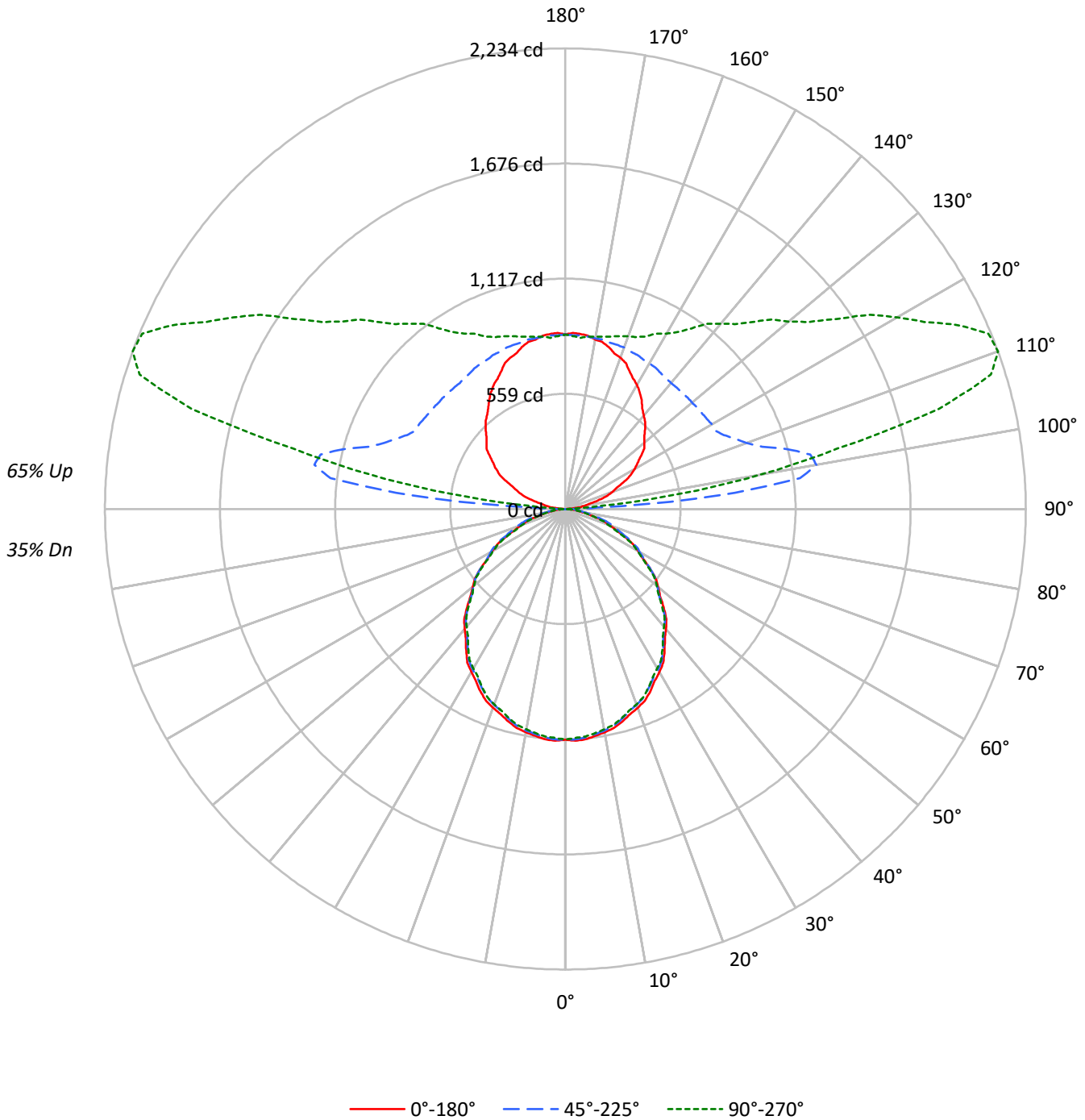
Lumens per Lamp: N/A  
Luminaire Lumens: 8100.7 lumens  
Efficiency: N/A  
Efficacy: 110.7 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 73.2  
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	50	30	10	0	
RCR																						
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35				
1	95	90	87	83	85	82	79	76	66	64	62	51	50	48	38	37	36	30				
2	86	79	73	68	78	72	67	62	58	54	51	45	43	41	33	32	30	25				
3	79	69	62	57	71	63	57	52	51	47	43	40	37	34	29	28	26	21				
4	72	61	54	48	65	56	49	44	45	40	37	35	32	29	26	24	22	18				
5	66	55	47	41	59	50	43	38	40	35	31	32	28	25	24	21	19	16				
6	61	49	41	35	55	44	38	33	36	31	27	29	25	22	21	19	17	14				
7	56	44	36	31	50	40	33	29	33	28	24	26	22	20	20	17	15	12				
8	52	40	32	27	47	36	30	25	30	25	21	24	20	17	18	15	14	11				
9	48	36	29	24	44	33	27	22	27	22	19	22	18	16	17	14	12	10				
10	45	33	26	21	41	30	24	20	25	20	17	20	17	14	15	13	11	9				

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

	0°	45°	90°
0°	10322	10322	10322
5°	10389	10306	10261
10°	10305	10223	10167
15°	10196	10084	10045
20°	10075	9919	9901
25°	9934	9753	9723
30°	9725	9577	9514
35°	9447	9315	9259
40°	9153	9010	8975
45°	8797	8681	8643
50°	8433	8361	8305
55°	8038	8038	7912
60°	7549	7693	7422
65°	6907	7252	6735
70°	6088	6674	5929
75°	5201	5974	5058
80°	4033	5026	4086
85°	2604	3864	3440



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	105.3	1.3
10°-20°	297.4	3.7
20°-30°	441.2	5.4
30°-40°	516.2	6.4
40°-50°	513.9	6.3
50°-60°	443.8	5.5
60°-70°	319.4	3.9
70°-80°	167.5	2.1
80°-90°	41.5	0.5
90°-100°	385.4	4.8
100°-110°	1096.7	13.5
110°-120°	1050.8	13.0
120°-130°	831.6	10.3
130°-140°	667.5	8.2
140°-150°	522.6	6.5
150°-160°	382.4	4.7
160°-170°	236.8	2.9
170°-180°	80.4	1.0
0°-30°	844.0	10.4
0°-40°	1360.2	16.8
0°-60°	2317.9	28.6
0°-90°	2846.4	35.1
90°-120°	2532.9	31.3
90°-150°	4554.7	56.2
90°-180°	5254.0	64.9
0°-180°	8100.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1122	1109	1113	1110	1108	106
15°	1068	1054	1056	1054	1052	301
25°	976	960	958	952	955	449
35°	839	827	827	819	822	524
45°	674	668	665	663	662	520
55°	500	499	500	493	492	446
65°	316	326	332	319	308	314
75°	146	159	168	156	142	156
85°	25	32	36	34	32	32
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1125.1	1115.8	1118.8	1116.3	1110.9
5°	1121.7	1109.2	1112.8	1109.8	1107.9
7.5°	1110.3	1098.7	1101.4	1098.2	1097.1
10°	1100.0	1088.5	1091.2	1087.2	1085.2
12.5°	1088.2	1075.9	1078.5	1074.6	1073.4
15°	1067.5	1054.0	1055.7	1053.7	1051.7
17.5°	1043.5	1029.8	1030.0	1026.9	1026.5
20°	1026.1	1011.6	1010.3	1006.4	1008.4
22.5°	1007.2	992.0	990.6	985.2	987.9
25°	975.8	959.5	958.1	952.2	955.1
27.5°	939.6	923.4	923.4	915.2	918.3
30°	912.8	897.3	899.0	889.2	893.0
32.5°	884.4	870.5	871.4	861.6	865.4
35°	838.8	827.3	827.0	819.2	822.1
37.5°	792.3	782.1	780.5	776.0	776.7
40°	760.0	751.3	748.1	745.2	745.2
42.5°	726.1	718.2	715.0	712.8	712.1
45°	674.2	668.4	665.3	663.3	662.4
47.5°	623.0	617.6	614.9	613.5	612.5
50°	587.5	583.6	582.5	579.6	578.6
52.5°	552.0	549.7	548.6	544.9	543.9
55°	499.7	498.8	499.7	492.8	491.9
57.5°	445.3	446.9	450.1	440.7	438.4
60°	409.1	412.9	416.9	406.0	402.2
62.5°	372.0	378.2	383.8	371.3	365.9
65°	316.4	326.0	332.2	319.1	308.5
67.5°	262.8	274.7	282.1	268.0	256.1
70°	225.7	239.2	247.4	233.3	219.8
72.5°	193.4	208.4	215.1	201.8	188.3
75°	145.9	159.4	167.6	156.4	141.9
77.5°	103.5	116.2	123.0	113.3	101.3
80°	75.9	89.4	94.6	86.5	76.9
82.5°	53.8	65.0	68.6	63.7	57.2
85°	24.6	32.4	36.5	34.5	32.5
87.5°	6.3	11.7	15.0	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)