

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: P562466

Luminaire Tested: **SQ4-PW1-150U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562466  
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-PW1-150U-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 1500 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

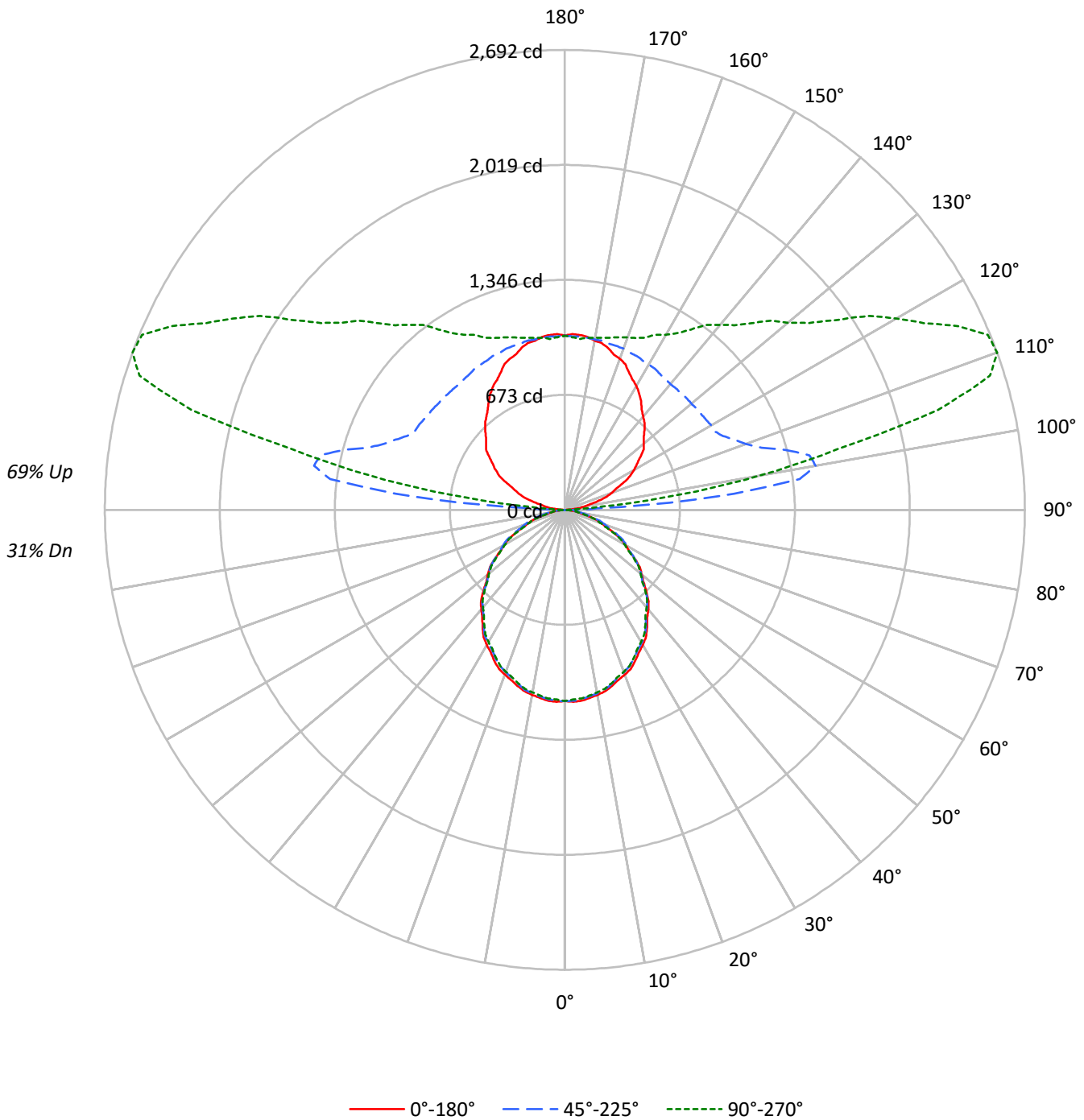
Lumens per Lamp: N/A  
Luminaire Lumens: 9178.5 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 82.8  
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				
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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	31		
1	94	89	86	82	84	81	77	75	64	62	60	48	47	46	34	33	33	26		
2	85	78	72	67	76	70	65	61	56	52	49	43	40	38	30	29	28	22		
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	19		
4	71	61	53	47	64	55	48	43	44	39	35	33	30	28	24	22	20	16		
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	14		
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	16	12		
7	55	43	36	30	50	39	33	28	32	27	23	25	21	18	18	16	14	11		
8	51	39	32	27	46	36	29	25	29	24	20	22	19	16	16	14	12	10		
9	48	36	29	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9		
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8		

**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	1.1
10°-20°	297.4	3.2
20°-30°	441.2	4.8
30°-40°	516.2	5.6
40°-50°	513.9	5.6
50°-60°	443.8	4.8
60°-70°	319.4	3.5
70°-80°	167.5	1.8
80°-90°	41.5	0.5
90°-100°	464.5	5.1
100°-110°	1321.7	14.4
110°-120°	1266.3	13.8
120°-130°	1002.2	10.9
130°-140°	804.5	8.8
140°-150°	629.8	6.9
150°-160°	460.8	5.0
160°-170°	285.4	3.1
170°-180°	96.9	1.1
0°-30°	844.0	9.2
0°-40°	1360.2	14.8
0°-60°	2317.9	25.3
0°-90°	2846.4	31.0
90°-120°	3052.5	33.3
90°-150°	5489.0	59.8
90°-180°	6332.0	69.0
0°-180°	9178.5	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°	50	200	899	311	192	58
105°	205	312	1347	2379	2262	217
115°	382	461	1021	2164	2541	376
125°	539	598	975	1618	1934	482
135°	659	714	963	1366	1545	508
145°	777	817	971	1183	1289	485
155°	888	908	994	1069	1112	410
165°	981	984	1006	1028	1043	276
175°	1027	1022	1018	1012	1004	97
180°	1019	1019	1019	1019	1019	

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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°	15.5	82.2	190.7	55.5	41.9
95°	50.4	200.1	899.2	311.2	191.9
97.5°	92.6	234.4	1384.9	991.0	679.1
100°	122.1	254.7	1490.3	1509.6	1162.8
102.5°	154.7	276.7	1467.1	1932.3	1629.5
105°	205.4	311.5	1346.9	2379.1	2261.7
107.5°	257.0	352.1	1206.6	2505.1	2609.7
110°	292.6	381.7	1126.0	2456.9	2691.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	326.7	411.3	1071.7	2342.9	2677.9
115°	381.8	461.4	1021.3	2163.6	2540.7
117.5°	430.2	504.9	991.5	1967.6	2367.1
120°	469.0	531.5	988.4	1855.6	2238.4
122.5°	500.0	562.5	980.6	1757.3	2112.8
125°	538.8	597.5	974.8	1617.7	1934.1
127.5°	581.0	636.0	971.7	1534.2	1795.0
130°	602.7	657.7	967.1	1476.1	1703.5
132.5°	626.0	679.4	967.1	1430.7	1639.9
135°	658.9	713.9	963.2	1366.5	1544.6
137.5°	689.9	743.4	962.8	1312.0	1465.9
140°	713.2	768.1	961.3	1266.9	1414.7
142.5°	739.5	785.4	965.9	1230.9	1363.6
145°	777.1	816.9	970.9	1182.7	1288.8
147.5°	809.3	848.0	979.5	1133.9	1225.6
150°	837.2	863.7	982.6	1117.8	1182.2
152.5°	858.9	887.0	985.7	1095.9	1155.8
155°	887.6	908.5	994.2	1068.8	1112.4
157.5°	923.3	935.8	996.1	1056.5	1087.6
160°	941.9	951.3	1003.9	1047.1	1073.7
162.5°	952.7	963.7	1005.4	1039.2	1059.7
165°	980.6	984.4	1005.8	1027.5	1042.6
167.5°	999.6	996.2	1014.7	1024.6	1030.6
170°	1005.8	1003.9	1011.6	1013.7	1021.3
172.5°	1019.8	1013.3	1016.3	1010.6	1016.7
175°	1027.1	1021.5	1017.5	1011.5	1003.9
177.5°	1030.2	1021.1	1016.3	1010.1	1011.6
180°	1019.4	1019.4	1019.4	1019.4	1019.4

(END OF REPORT)