

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: P523637

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523637  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/24/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5173.0 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

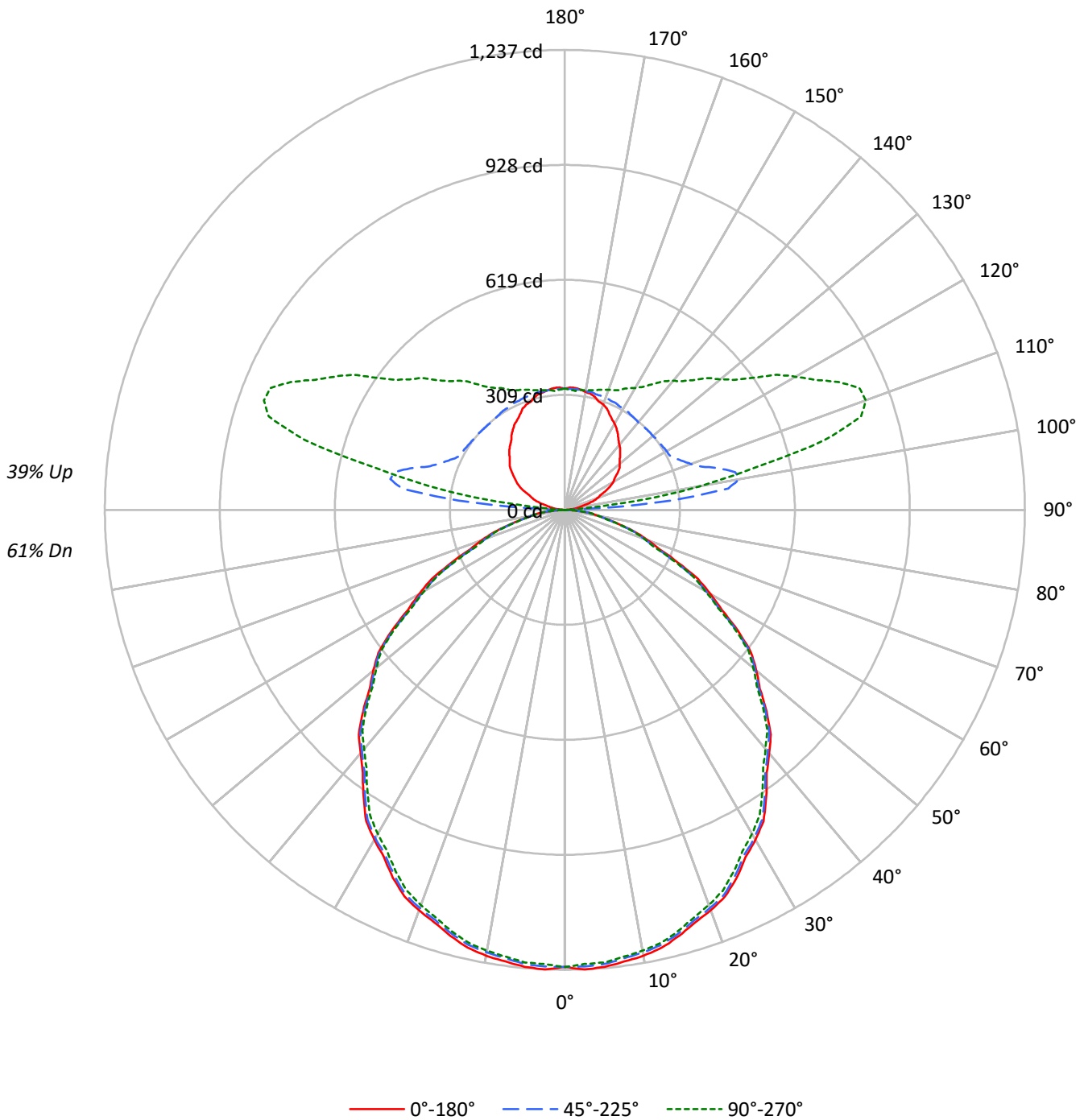
Input Watts (W): 45.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				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	110	110	110	110	103	103	103	103	89	89	89	77	77	77	66	66	66	61
1	100	96	92	89	94	90	87	84	79	76	74	68	67	65	59	58	56	52
2	92	84	78	73	86	79	74	69	69	65	62	60	57	55	52	50	48	44
3	84	74	67	61	78	70	63	58	61	56	52	54	50	46	46	43	41	37
4	77	66	58	52	72	62	55	49	55	49	45	48	43	40	41	38	35	32
5	71	59	51	45	66	55	48	42	49	43	39	43	38	35	37	34	31	28
6	65	53	45	39	61	50	42	37	44	38	34	39	34	30	34	30	27	25
7	60	48	40	34	56	45	38	33	40	34	30	35	31	27	31	27	24	22
8	56	43	36	30	52	41	34	29	37	31	26	32	28	24	28	25	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	24	21	18	16

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

	0°	45°	90°
0°	11344	11344	11344
5°	11427	11357	11317
10°	11408	11327	11277
15°	11332	11270	11209
20°	11257	11194	11109
25°	11124	11046	10936
30°	10918	10860	10723
35°	10632	10559	10425
40°	10292	10227	10110
45°	10010	9940	9842
50°	9651	9590	9496
55°	9153	9030	8961
60°	8331	8093	8053
65°	7340	7034	7010
70°	6337	6075	6075
75°	5454	5379	5301
80°	4808	4867	4750
85°	3769	4107	4107



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	2.2
10°-20°	332.0	6.4
20°-30°	497.2	9.6
30°-40°	583.2	11.3
40°-50°	585.1	11.3
50°-60°	499.1	9.6
60°-70°	325.5	6.3
70°-80°	163.3	3.2
80°-90°	45.2	0.9
90°-100°	148.6	2.9
100°-110°	422.9	8.2
110°-120°	405.2	7.8
120°-130°	320.7	6.2
130°-140°	257.4	5.0
140°-150°	201.5	3.9
150°-160°	147.4	2.9
160°-170°	91.3	1.8
170°-180°	31.0	0.6
0°-30°	945.5	18.3
0°-40°	1528.7	29.6
0°-60°	2612.9	50.5
0°-90°	3146.9	60.8
90°-120°	976.8	18.9
90°-150°	1756.4	34.0
90°-180°	2026.0	39.2
0°-180°	5173.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1230	1230	1230	1230	1230	
5°	1234	1222	1226	1222	1222	117
15°	1186	1175	1180	1176	1174	335
25°	1093	1080	1085	1075	1074	502
35°	944	934	938	927	926	590
45°	767	762	762	754	754	591
55°	569	567	561	558	557	506
65°	336	330	322	320	321	336
75°	153	153	151	150	149	166
85°	36	39	39	39	39	42
90°	0	0	0	0	0	2
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

TEST NUMBER: P523637

CATALOG NUMBER: SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1229.5	1229.5	1229.5	1229.5	1229.5
2.5°	1237.3	1227.2	1229.5	1227.7	1222.6
5°	1233.8	1222.2	1226.3	1222.0	1222.0
7.5°	1225.4	1212.8	1216.8	1212.5	1212.3
10°	1217.7	1205.0	1209.0	1204.7	1203.7
12.5°	1206.5	1193.8	1198.7	1193.5	1193.3
15°	1186.4	1174.8	1179.9	1175.6	1173.5
17.5°	1163.8	1151.1	1157.3	1151.3	1150.4
20°	1146.5	1133.9	1140.1	1131.5	1131.5
22.5°	1125.8	1113.2	1120.2	1109.0	1109.0
25°	1092.7	1080.0	1085.1	1075.4	1074.3
27.5°	1053.2	1040.8	1046.1	1035.1	1034.9
30°	1024.8	1013.2	1019.4	1007.5	1006.5
32.5°	993.7	983.0	987.5	975.6	974.6
35°	944.0	934.5	937.5	926.7	925.6
37.5°	891.6	881.9	885.3	876.1	875.6
40°	854.5	848.2	849.1	841.5	839.4
42.5°	820.0	812.9	813.8	806.2	805.8
45°	767.2	762.0	761.8	754.3	754.3
47.5°	711.2	707.2	706.0	699.8	699.6
50°	672.4	669.2	668.1	662.7	661.6
52.5°	631.9	630.4	626.7	622.2	622.0
55°	569.0	566.9	561.4	558.2	557.1
57.5°	500.6	496.4	490.3	485.6	486.4
60°	451.5	447.3	438.6	436.4	436.4
62.5°	404.1	399.0	390.3	387.3	389.0
65°	336.2	329.9	322.2	320.1	321.1
67.5°	274.6	268.9	260.6	260.5	259.7
70°	234.9	231.8	225.2	225.2	225.2
72.5°	199.6	198.1	193.3	193.3	192.5
75°	153.0	153.0	150.9	149.8	148.7
77.5°	114.7	115.1	114.0	112.9	111.0
80°	90.5	92.6	91.6	90.5	89.4
82.5°	68.1	70.2	70.0	68.1	67.9
85°	35.6	38.7	38.8	38.8	38.8
87.5°	9.5	12.9	13.8	13.8	14.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

TEST NUMBER: P523637

CATALOG NUMBER: SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (5000K)

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)