

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: P523634

Luminaire Tested: **SQ4-PP3-025U-075D-92765-1D-UNV-STD-W-4 (3500K)**

Issue Date: 5/24/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P523634  
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 (3500K)  
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 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4944.7 lumens  
Efficiency: N/A  
Efficacy: 107.7 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

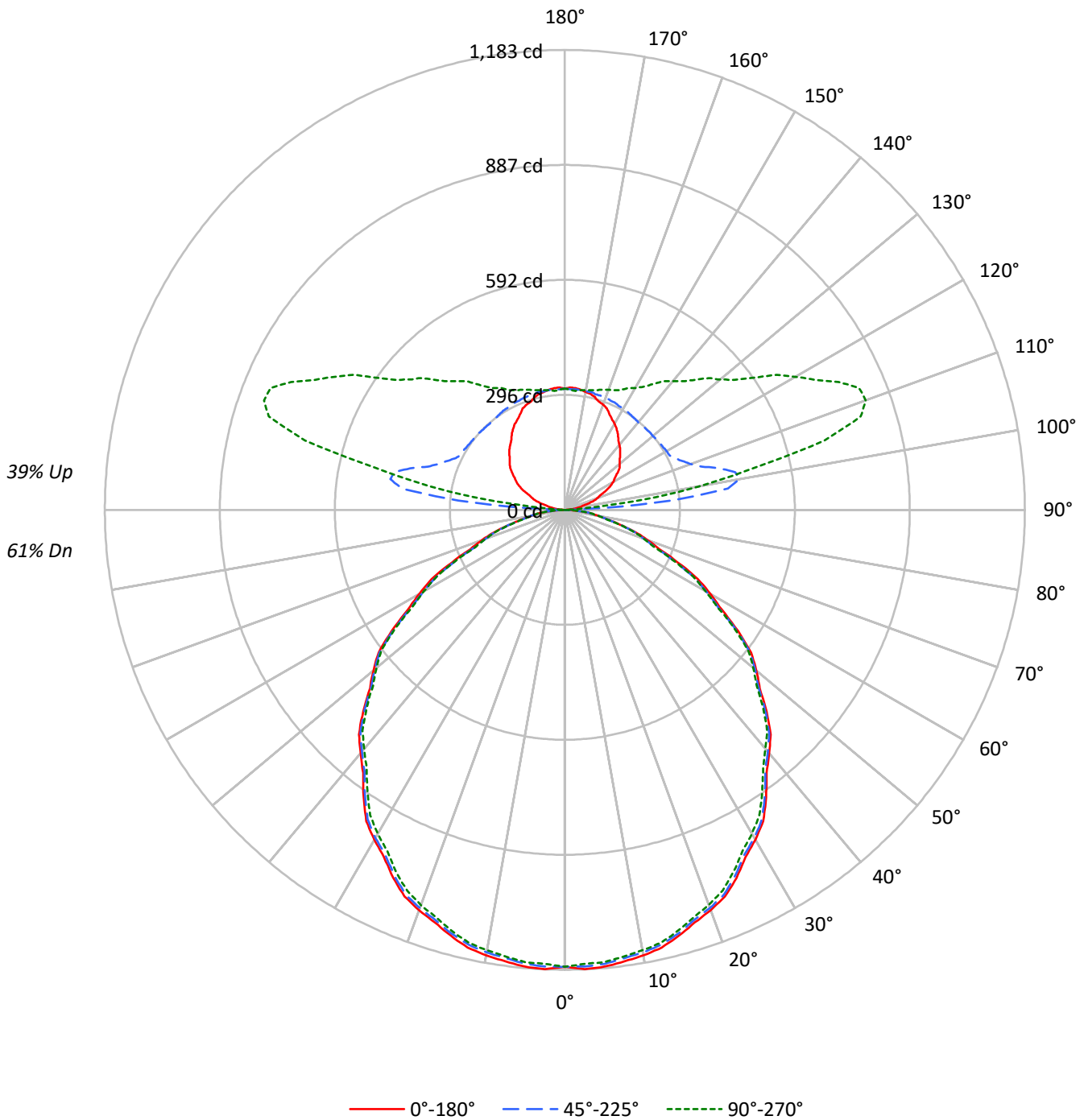
Input Watts (W): 45.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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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°	10844	10844	10844
5°	10923	10856	10817
10°	10904	10827	10778
15°	10833	10773	10714
20°	10760	10700	10619
25°	10632	10559	10454
30°	10435	10381	10249
35°	10163	10093	9966
40°	9837	9776	9664
45°	9569	9501	9407
50°	9225	9166	9077
55°	8749	8631	8565
60°	7964	7735	7698
65°	7017	6724	6700
70°	6056	5808	5808
75°	5215	5140	5065
80°	4596	4654	4543
85°	3599	3927	3927



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.1	2.2
10°-20°	317.3	6.4
20°-30°	475.3	9.6
30°-40°	557.5	11.3
40°-50°	559.2	11.3
50°-60°	477.1	9.6
60°-70°	311.1	6.3
70°-80°	156.1	3.2
80°-90°	43.2	0.9
90°-100°	142.1	2.9
100°-110°	404.2	8.2
110°-120°	387.3	7.8
120°-130°	306.6	6.2
130°-140°	246.0	5.0
140°-150°	192.6	3.9
150°-160°	140.9	2.9
160°-170°	87.3	1.8
170°-180°	29.6	0.6
0°-30°	903.7	18.3
0°-40°	1461.2	29.6
0°-60°	2497.6	50.5
0°-90°	3008.0	60.8
90°-120°	933.6	18.9
90°-150°	1678.9	34.0
90°-180°	1937.0	39.2
0°-180°	4944.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1175	1175	1175	1175	1175	
5°	1179	1168	1172	1168	1168	112
15°	1134	1123	1128	1124	1122	320
25°	1044	1032	1037	1028	1027	480
35°	902	893	896	886	885	564
45°	733	728	728	721	721	565
55°	544	542	537	534	532	483
65°	321	315	308	306	307	321
75°	146	146	144	143	142	159
85°	34	37	37	37	37	40
90°	0	0	0	0	0	2
95°	15	61	275	95	59	18
105°	63	95	412	728	692	66
115°	117	141	312	662	777	115
125°	165	183	298	495	592	147
135°	202	218	295	418	472	156
145°	238	250	297	362	394	148
155°	272	278	304	327	340	126
165°	300	301	308	314	319	84
175°	314	312	311	309	307	30
180°	312	312	312	312	312	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1175.3	1175.3	1175.3	1175.3	1175.3
2.5°	1182.7	1173.0	1175.3	1173.5	1168.7
5°	1179.4	1168.3	1172.2	1168.0	1168.0
7.5°	1171.3	1159.3	1163.1	1159.0	1158.8
10°	1163.9	1151.8	1155.7	1151.5	1150.5
12.5°	1153.2	1141.1	1145.8	1140.8	1140.6
15°	1134.1	1123.0	1127.9	1123.7	1121.7
17.5°	1112.4	1100.3	1106.2	1100.5	1099.6
20°	1095.9	1083.9	1089.8	1081.5	1081.5
22.5°	1076.2	1064.1	1070.8	1060.1	1060.1
25°	1044.4	1032.4	1037.2	1027.9	1026.9
27.5°	1006.7	994.9	999.9	989.4	989.2
30°	979.5	968.5	974.4	963.0	962.0
32.5°	949.9	939.6	943.9	932.6	931.5
35°	902.3	893.2	896.1	885.8	884.8
37.5°	852.2	843.0	846.3	837.4	837.0
40°	816.8	810.8	811.7	804.4	802.4
42.5°	783.8	777.0	777.9	770.7	770.2
45°	733.4	728.3	728.2	721.0	721.0
47.5°	679.8	676.0	674.9	668.9	668.7
50°	642.7	639.7	638.6	633.4	632.4
52.5°	604.0	602.6	599.1	594.7	594.5
55°	543.9	541.8	536.6	533.5	532.5
57.5°	478.5	474.5	468.7	464.1	465.0
60°	431.6	427.5	419.2	417.2	417.2
62.5°	386.3	381.4	373.1	370.2	371.8
65°	321.4	315.3	308.0	305.9	306.9
67.5°	262.4	257.0	249.1	249.0	248.2
70°	224.5	221.5	215.3	215.3	215.3
72.5°	190.8	189.3	184.8	184.8	184.0
75°	146.3	146.3	144.2	143.1	142.1
77.5°	109.6	110.0	109.0	107.9	106.1
80°	86.5	88.5	87.6	86.5	85.5
82.5°	65.1	67.1	67.0	65.1	64.9
85°	34.0	37.0	37.1	37.1	37.1
87.5°	9.1	12.3	13.2	13.2	14.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.7	25.1	58.3	17.0	12.8
95°	15.4	61.2	275.0	95.2	58.7
97.5°	28.3	71.7	423.6	303.1	207.7
100°	37.3	77.9	455.8	461.7	355.7
102.5°	47.3	84.6	448.7	591.0	498.4
105°	62.8	95.3	412.0	727.7	691.7
107.5°	78.6	107.7	369.0	766.2	798.2
110°	89.5	116.7	344.4	751.5	823.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	99.9	125.8	327.8	716.6	819.1
115°	116.8	141.1	312.4	661.8	777.1
117.5°	131.6	154.4	303.3	601.8	724.0
120°	143.4	162.6	302.3	567.6	684.6
122.5°	152.9	172.1	299.9	537.5	646.2
125°	164.8	182.8	298.2	494.8	591.6
127.5°	177.7	194.5	297.2	469.3	549.0
130°	184.3	201.2	295.8	451.5	521.0
132.5°	191.5	207.8	295.8	437.6	501.6
135°	201.5	218.3	294.6	417.9	472.4
137.5°	211.0	227.4	294.5	401.3	448.4
140°	218.1	234.9	294.0	387.5	432.7
142.5°	226.2	240.2	295.4	376.5	417.1
145°	237.7	249.9	297.0	361.7	394.2
147.5°	247.5	259.4	299.6	346.8	374.9
150°	256.1	264.2	300.5	341.9	361.6
152.5°	262.7	271.3	301.5	335.2	353.5
155°	271.5	277.9	304.1	326.9	340.2
157.5°	282.4	286.2	304.7	323.1	332.7
160°	288.1	291.0	307.0	320.3	328.4
162.5°	291.4	294.8	307.5	317.9	324.1
165°	299.9	301.1	307.6	314.3	318.9
167.5°	305.7	304.7	310.4	313.4	315.2
170°	307.6	307.1	309.4	310.1	312.4
172.5°	311.9	309.9	310.8	309.1	311.0
175°	314.2	312.4	311.2	309.4	307.0
177.5°	315.1	312.3	310.8	309.0	309.4
180°	311.8	311.8	311.8	311.8	311.8

(END OF REPORT)