

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: P564536

Luminaire Tested: **SQ4-PW1-025U-050D-930-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P564536  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PW1-025U-050D-930-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

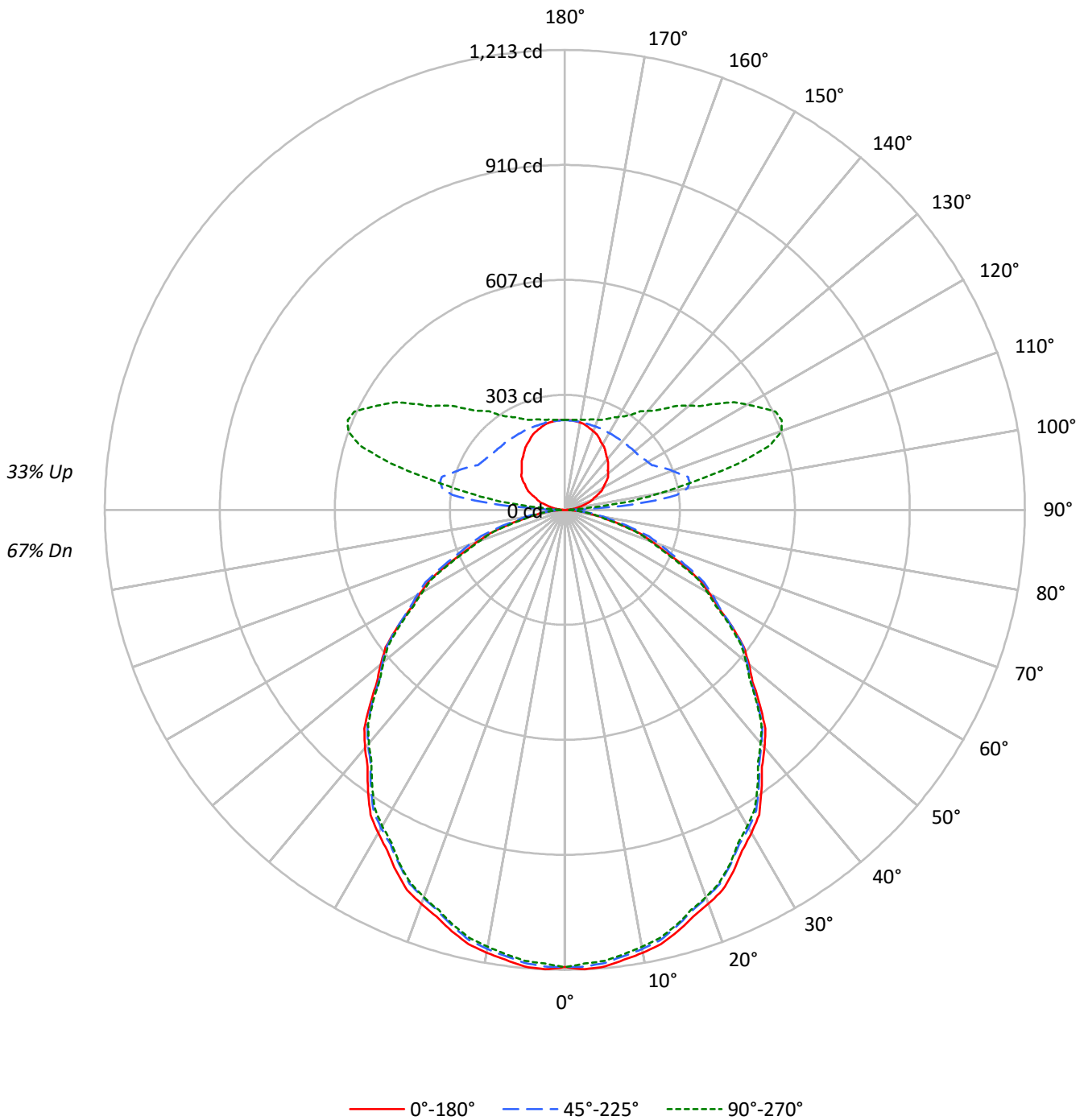
Lumens per Lamp: N/A  
Luminaire Lumens: 4607.1 lumens  
Efficiency: N/A  
Efficacy: 100.8 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 45.7  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	71	71	71	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	63	62	61	56
2	93	85	79	74	87	80	75	70	72	67	64	63	60	57	56	53	51	47
3	85	75	67	61	79	71	64	59	63	58	54	56	52	49	50	46	44	40
4	78	66	58	52	73	63	56	50	56	50	46	50	45	42	44	41	38	35
5	71	59	51	45	67	56	49	43	50	44	40	45	40	36	40	36	33	30
6	66	53	45	39	62	51	43	38	46	39	35	41	36	32	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	31	37	32	28	33	29	26	23
8	57	44	36	30	53	42	35	29	38	32	27	34	29	25	31	26	23	21
9	53	40	32	27	50	38	31	26	35	29	25	31	26	23	28	24	21	19
10	49	37	30	25	47	35	28	24	32	26	22	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	5563	5563	5563
5°	5599	5555	5531
10°	5555	5510	5480
15°	5496	5435	5415
20°	5431	5347	5336
25°	5355	5257	5241
30°	5242	5162	5128
35°	5093	5021	4991
40°	4934	4857	4837
45°	4742	4680	4659
50°	4545	4507	4476
55°	4333	4333	4264
60°	4069	4147	4000
65°	3723	3909	3631
70°	3282	3597	3197
75°	2804	3219	2727
80°	2173	2710	2202
85°	1408	2080	1858



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	113.6	2.5
10°-20°	320.6	7.0
20°-30°	475.6	10.3
30°-40°	556.5	12.1
40°-50°	554.0	12.0
50°-60°	478.4	10.4
60°-70°	344.4	7.5
70°-80°	180.6	3.9
80°-90°	46.1	1.0
90°-100°	115.6	2.5
100°-110°	303.9	6.6
110°-120°	315.1	6.8
120°-130°	252.8	5.5
130°-140°	198.3	4.3
140°-150°	152.2	3.3
150°-160°	109.6	2.4
160°-170°	67.1	1.5
170°-180°	22.7	0.5
0°-30°	909.8	19.7
0°-40°	1466.3	31.8
0°-60°	2498.8	54.2
0°-90°	3069.8	66.6
90°-120°	734.6	15.9
90°-150°	1337.9	29.0
90°-180°	1537.0	33.4
0°-180°	4607.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1206	1206	1206	1206	1206	
5°	1209	1196	1200	1196	1194	115
15°	1151	1136	1138	1136	1134	324
25°	1052	1034	1033	1026	1030	484
35°	904	892	892	883	886	565
45°	727	721	717	715	714	561
55°	539	538	539	531	530	481
65°	341	352	358	344	333	338
75°	157	172	181	169	153	169
85°	27	35	39	37	35	35
90°	2	4	12	6	6	2
95°	15	60	199	103	70	17
105°	55	83	336	510	476	58
115°	97	118	269	537	613	96
125°	135	152	245	414	488	120
135°	161	178	237	334	379	125
145°	187	199	234	285	307	117
155°	211	217	234	257	264	97
165°	228	231	234	243	246	64
175°	237	237	236	239	239	23
180°	237	237	237	237	237	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1206.0	1206.0	1206.0	1206.0	1206.0
2.5°	1212.8	1202.9	1206.0	1203.4	1197.5
5°	1209.2	1195.7	1199.7	1196.4	1194.4
7.5°	1196.9	1184.4	1187.3	1183.9	1182.7
10°	1185.9	1173.4	1176.3	1172.0	1169.9
12.5°	1173.1	1159.8	1162.7	1158.4	1157.2
15°	1150.8	1136.2	1138.0	1135.9	1133.8
17.5°	1124.9	1110.1	1110.4	1107.0	1106.6
20°	1106.2	1090.6	1089.2	1085.0	1087.0
22.5°	1085.8	1069.3	1067.9	1062.0	1064.9
25°	1052.0	1034.3	1032.8	1026.5	1029.7
27.5°	1012.9	995.4	995.4	986.6	989.9
30°	984.0	967.3	969.1	958.6	962.7
32.5°	953.4	938.4	939.3	928.8	933.0
35°	904.3	891.8	891.5	883.1	886.2
37.5°	854.1	843.1	841.4	836.5	837.3
40°	819.3	809.9	806.5	803.3	803.3
42.5°	782.7	774.2	770.8	768.5	767.6
45°	726.8	720.6	717.3	715.1	714.1
47.5°	671.6	665.7	662.8	661.3	660.3
50°	633.3	629.2	628.0	624.8	623.7
52.5°	595.1	592.6	591.4	587.4	586.3
55°	538.7	537.7	538.7	531.3	530.2
57.5°	480.1	481.7	485.2	475.1	472.6
60°	441.0	445.1	449.5	437.7	433.5
62.5°	401.0	407.7	413.8	400.3	394.4
65°	341.1	351.5	358.1	344.0	332.6
67.5°	283.3	296.2	304.1	288.9	276.1
70°	243.3	257.9	266.7	251.5	237.0
72.5°	208.5	224.7	231.9	217.5	203.0
75°	157.3	171.8	180.6	168.6	153.0
77.5°	111.6	125.3	132.6	122.1	109.2
80°	81.8	96.4	102.0	93.3	82.9
82.5°	58.0	70.1	74.0	68.7	61.6
85°	26.6	34.9	39.3	37.1	35.1
87.5°	7.1	13.5	18.6	17.4	18.2
90°	1.5	4.5	12.2	6.1	6.1
92.5°	6.4	30.8	68.1	30.2	19.5
95°	15.2	59.8	199.2	102.6	69.9
97.5°	26.5	65.7	298.0	237.0	174.5
100°	35.0	70.6	328.4	332.8	258.5
102.5°	42.3	75.6	336.9	414.5	350.9
105°	54.7	83.0	336.0	510.1	475.9
107.5°	67.5	93.7	316.8	559.7	568.0
110°	76.0	99.8	301.0	572.5	608.1

TEST NUMBER: P564536

CATALOG NUMBER: SQ4-PW1-025U-050D-930-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	84.5	107.1	286.4	564.4	619.1
115°	97.3	118.1	269.1	536.9	612.7
117.5°	109.8	128.8	257.2	498.8	582.9
120°	117.1	134.9	252.4	473.2	554.9
122.5°	124.4	142.2	248.7	447.6	528.2
125°	135.3	151.7	244.8	413.7	488.0
127.5°	144.1	160.8	241.4	386.4	449.1
130°	149.0	166.8	240.2	369.2	427.2
132.5°	153.9	171.7	239.0	354.5	406.5
135°	161.2	177.5	237.2	334.0	378.6
137.5°	168.8	184.8	236.9	318.6	355.2
140°	174.8	189.7	235.7	306.4	340.6
142.5°	179.7	193.4	235.7	297.7	327.2
145°	187.0	198.9	234.1	284.8	307.1
147.5°	194.3	205.9	234.1	274.1	292.5
150°	199.2	209.6	234.1	267.9	282.8
152.5°	204.0	212.1	234.1	263.0	274.3
155°	211.3	217.3	234.1	257.1	264.5
157.5°	216.8	222.5	234.1	251.9	257.2
160°	220.5	224.9	234.1	249.4	252.4
162.5°	224.1	227.4	234.1	247.0	249.9
165°	228.1	231.0	234.1	243.3	246.3
167.5°	231.7	233.2	235.7	241.8	243.0
170°	234.1	235.6	235.7	241.7	241.7
172.5°	235.3	235.6	235.7	240.5	239.3
175°	237.2	237.2	235.7	238.7	238.7
177.5°	237.2	237.2	236.0	238.4	237.2
180°	237.2	237.2	237.2	237.2	237.2

(END OF REPORT)