

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: P563183

Luminaire Tested: **SQ4-PP3-025U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563183  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-025U-050D-835-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

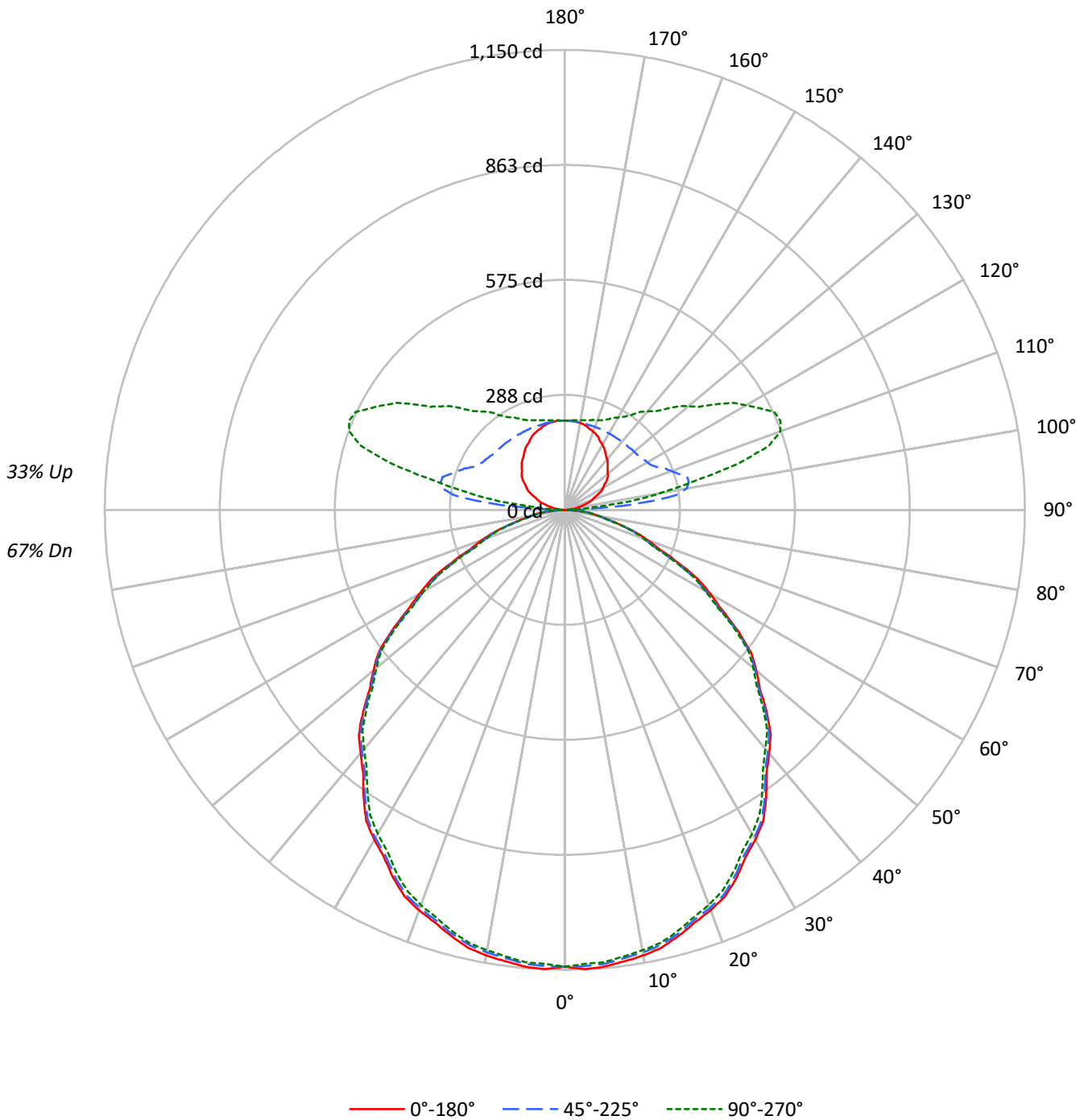
Lumens per Lamp: N/A  
Luminaire Lumens: 4374.1 lumens  
Efficiency: N/A  
Efficacy: 125.3 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 34.9  
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	111	111	111	111	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	98	94	90	96	92	89	86	82	79	77	72	71	69	64	62	61	57
2	93	85	79	74	87	81	75	71	72	68	64	64	61	58	56	54	52	48
3	85	75	68	62	80	71	65	59	64	58	54	57	53	49	50	47	44	41
4	78	67	59	53	73	63	56	51	57	51	46	51	46	42	45	41	38	35
5	72	60	51	45	67	57	49	44	51	45	40	46	41	37	41	37	33	31
6	66	54	45	39	62	51	43	38	46	40	35	41	36	32	37	33	30	27
7	61	49	40	35	57	46	39	34	42	36	31	38	32	29	34	29	26	24
8	57	44	36	31	53	42	35	30	38	32	28	34	29	26	31	27	24	21
9	53	40	33	28	50	39	32	27	35	29	25	32	27	23	29	24	21	19
10	50	37	30	25	47	36	29	24	32	27	23	29	24	21	26	22	19	17

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

	0°	45°	90°
0°	7027	7027	7027
5°	7078	7035	7010
10°	7066	7016	6985
15°	7020	6982	6943
20°	6973	6934	6881
25°	6890	6843	6775
30°	6763	6727	6642
35°	6586	6541	6458
40°	6375	6335	6263
45°	6201	6158	6097
50°	5979	5940	5883
55°	5670	5594	5552
60°	5161	5013	4988
65°	4547	4357	4343
70°	3926	3764	3764
75°	3379	3332	3284
80°	2979	3014	2943
85°	2329	2541	2541



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	2.5
10°-20°	308.5	7.1
20°-30°	462.0	10.6
30°-40°	541.9	12.4
40°-50°	543.6	12.4
50°-60°	463.8	10.6
60°-70°	302.5	6.9
70°-80°	151.7	3.5
80°-90°	43.2	1.0
90°-100°	108.9	2.5
100°-110°	286.4	6.5
110°-120°	297.0	6.8
120°-130°	238.2	5.4
130°-140°	186.9	4.3
140°-150°	143.5	3.3
150°-160°	103.3	2.4
160°-170°	63.2	1.4
170°-180°	21.4	0.5
0°-30°	878.5	20.1
0°-40°	1420.4	32.5
0°-60°	2427.8	55.5
0°-90°	2925.2	66.9
90°-120°	692.3	15.8
90°-150°	1261.0	28.8
90°-180°	1449.0	33.1
0°-180°	4374.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1146	1136	1139	1135	1135	109
15°	1102	1092	1096	1092	1090	311
25°	1015	1004	1008	999	998	467
35°	877	868	871	861	860	548
45°	713	708	708	701	701	549
55°	529	527	522	519	518	470
65°	312	306	299	297	298	312
75°	142	142	140	139	138	154
85°	33	36	36	36	36	39
90°	1	4	12	6	6	2
95°	14	56	188	97	66	16
105°	52	78	317	481	448	55
115°	92	111	254	506	578	91
125°	128	143	231	390	460	113
135°	152	167	224	315	357	118
145°	176	188	221	268	290	110
155°	199	205	221	242	249	92
165°	215	218	221	229	232	61
175°	224	224	222	225	225	21
180°	224	224	224	224	224	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.4	1142.4	1142.4	1142.4	1142.4
2.5°	1149.6	1140.3	1142.4	1140.7	1136.0
5°	1146.4	1135.7	1139.4	1135.4	1135.4
7.5°	1138.6	1126.9	1130.6	1126.6	1126.4
10°	1131.4	1119.7	1123.4	1119.4	1118.4
12.5°	1121.0	1109.3	1113.8	1109.0	1108.8
15°	1102.4	1091.6	1096.4	1092.3	1090.4
17.5°	1081.4	1069.6	1075.4	1069.7	1068.9
20°	1065.3	1053.6	1059.3	1051.3	1051.3
22.5°	1046.1	1034.4	1040.9	1030.5	1030.5
25°	1015.3	1003.5	1008.3	999.2	998.3
27.5°	978.6	967.1	972.0	961.8	961.6
30°	952.2	941.4	947.2	936.2	935.2
32.5°	923.4	913.4	917.6	906.5	905.5
35°	877.1	868.3	871.1	861.1	860.1
37.5°	828.4	819.4	822.6	814.0	813.6
40°	794.0	788.1	789.0	781.9	780.0
42.5°	762.0	755.3	756.2	749.1	748.7
45°	712.9	708.0	707.9	700.9	700.9
47.5°	660.8	657.1	656.0	650.2	650.0
50°	624.8	621.9	620.8	615.8	614.8
52.5°	587.1	585.8	582.3	578.1	577.9
55°	528.7	526.7	521.7	518.6	517.7
57.5°	465.2	461.3	455.6	451.2	452.0
60°	419.5	415.6	407.5	405.5	405.5
62.5°	375.5	370.8	362.7	359.9	361.5
65°	312.4	306.5	299.4	297.4	298.4
67.5°	255.1	249.8	242.1	242.1	241.3
70°	218.3	215.3	209.3	209.3	209.3
72.5°	185.4	184.1	179.6	179.6	178.8
75°	142.2	142.2	140.2	139.2	138.2
77.5°	106.5	106.9	105.9	104.9	103.1
80°	84.1	86.1	85.1	84.1	83.1
82.5°	63.3	65.2	65.1	63.3	63.1
85°	33.0	36.0	36.0	36.0	36.0
87.5°	9.1	12.8	15.1	14.0	14.8
90°	1.4	4.2	11.5	5.7	5.7
92.5°	6.0	29.0	64.2	28.4	18.3
95°	14.3	56.4	187.7	96.7	65.9
97.5°	24.9	61.9	280.9	223.3	164.5
100°	33.0	66.6	309.5	313.7	243.6
102.5°	39.8	71.2	317.5	390.7	330.7
105°	51.6	78.2	316.7	480.7	448.5
107.5°	63.6	88.3	298.6	527.5	535.3
110°	71.6	94.1	283.7	539.5	573.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	79.7	101.0	270.0	531.9	583.5
115°	91.7	111.3	253.6	506.0	577.5
117.5°	103.5	121.4	242.5	470.1	549.4
120°	110.3	127.1	237.9	446.0	523.0
122.5°	117.2	134.0	234.4	421.9	497.8
125°	127.5	142.9	230.7	389.9	460.0
127.5°	135.8	151.5	227.5	364.2	423.3
130°	140.4	157.2	226.4	348.0	402.7
132.5°	145.0	161.8	225.3	334.1	383.2
135°	151.9	167.3	223.5	314.8	356.8
137.5°	159.1	174.2	223.3	300.3	334.7
140°	164.8	178.8	222.1	288.8	321.0
142.5°	169.4	182.3	222.1	280.6	308.4
145°	176.3	187.5	220.7	268.4	289.5
147.5°	183.1	194.1	220.7	258.3	275.7
150°	187.7	197.5	220.7	252.5	266.5
152.5°	192.3	199.9	220.7	247.9	258.5
155°	199.2	204.8	220.7	242.3	249.3
157.5°	204.3	209.7	220.7	237.4	242.5
160°	207.8	212.0	220.7	235.1	237.9
162.5°	211.2	214.3	220.7	232.8	235.6
165°	214.9	217.7	220.7	229.3	232.1
167.5°	218.4	219.8	222.1	227.9	229.0
170°	220.7	222.1	222.1	227.8	227.8
172.5°	221.8	222.1	222.1	226.7	225.5
175°	223.5	223.5	222.1	225.0	225.0
177.5°	223.5	223.5	222.4	224.7	223.5
180°	223.5	223.5	223.5	223.5	223.5

(END OF REPORT)