

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: P563974

Luminaire Tested: **SQ4-PR1-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563974  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2106-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PR1-050U-075D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

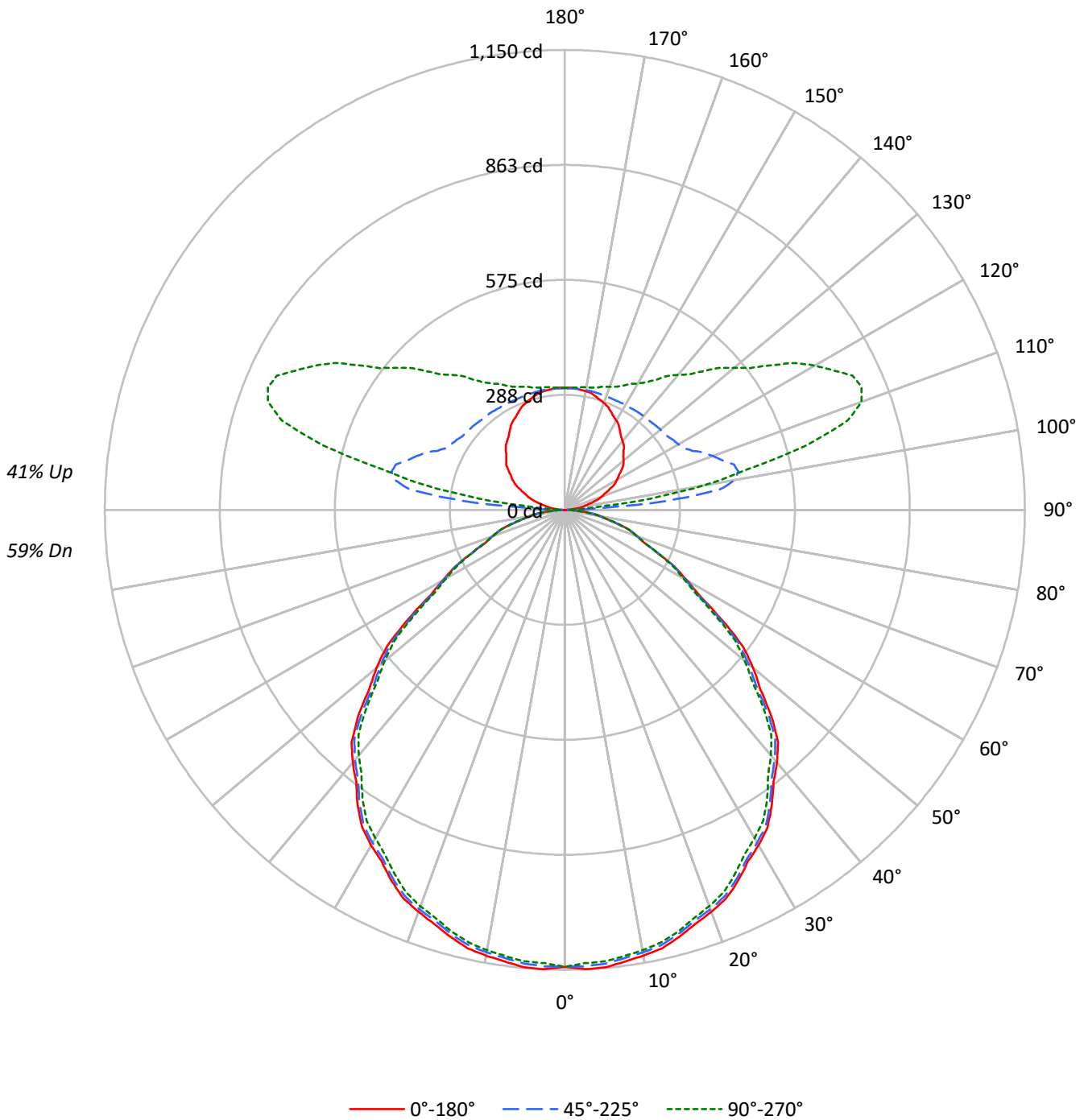
Lumens per Lamp: N/A  
Luminaire Lumens: 4849.2 lumens  
Efficiency: N/A  
Efficacy: 133.6 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 36.3  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	89	93	90	86	83	78	76	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	65	61	59	56	54	51	49	47	43
3	84	74	67	61	78	70	63	58	61	56	52	53	49	46	45	43	40	37
4	77	66	58	52	71	62	55	49	54	49	44	47	43	40	41	38	35	32
5	71	59	51	45	66	55	48	43	49	43	39	43	38	35	37	33	31	28
6	65	53	45	39	61	50	43	37	44	38	34	39	34	30	33	30	27	24
7	60	48	40	34	56	45	38	33	40	34	30	35	30	27	31	27	24	22
8	56	44	36	30	52	41	34	29	37	31	27	32	28	24	28	24	22	19
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	26	22	20	17
10	49	37	29	25	46	35	28	24	31	25	22	27	23	20	24	20	18	16

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

	0°	45°	90°
0°	10541	10541	10541
5°	10636	10553	10499
10°	10602	10528	10473
15°	10556	10490	10433
20°	10503	10435	10357
25°	10428	10358	10238
30°	10316	10242	10095
35°	10164	10075	9931
40°	9931	9825	9647
45°	9528	9361	9167
50°	8814	8602	8433
55°	7694	7518	7361
60°	6482	6429	6301
65°	5606	5628	5587
70°	5150	5177	5177
75°	4948	4948	4980
80°	4654	4707	4654
85°	3747	4171	4171



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	108.0	2.2
10°-20°	309.1	6.4
20°-30°	466.2	9.6
30°-40°	555.5	11.5
40°-50°	547.7	11.3
50°-60°	418.6	8.6
60°-70°	259.0	5.3
70°-80°	147.1	3.0
80°-90°	45.9	0.9
90°-100°	146.4	3.0
100°-110°	397.8	8.2
110°-120°	409.0	8.4
120°-130°	327.0	6.7
130°-140°	257.0	5.3
140°-150°	197.0	4.1
150°-160°	141.7	2.9
160°-170°	86.7	1.8
170°-180°	29.2	0.6
0°-30°	883.4	18.2
0°-40°	1438.9	29.7
0°-60°	2405.2	49.6
0°-90°	2857.3	58.9
90°-120°	953.3	19.7
90°-150°	1734.4	35.8
90°-180°	1992.0	41.1
0°-180°	4849.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1142	1142	1142	1142	1142	
5°	1148	1136	1140	1136	1134	109
15°	1105	1094	1098	1094	1092	312
25°	1024	1012	1018	1007	1006	471
35°	902	892	894	883	882	563
45°	730	721	717	704	703	559
55°	478	471	467	460	458	429
65°	257	255	258	256	256	260
75°	139	139	139	140	140	147
85°	35	37	39	39	39	41
90°	1	4	7	9	9	3
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1142.5	1142.5	1142.5	1142.5	1142.5
2.5°	1149.6	1139.6	1142.5	1140.0	1134.6
5°	1148.4	1135.9	1139.5	1135.6	1133.6
7.5°	1139.5	1127.2	1130.9	1126.9	1125.8
10°	1131.7	1120.1	1123.8	1119.8	1117.9
12.5°	1123.0	1110.7	1115.1	1110.4	1108.4
15°	1105.1	1093.6	1098.2	1094.2	1092.3
17.5°	1085.4	1073.1	1077.7	1073.2	1070.7
20°	1069.7	1058.1	1062.8	1055.9	1054.9
22.5°	1052.4	1040.8	1045.5	1036.2	1036.0
25°	1024.4	1011.9	1017.5	1006.7	1005.7
27.5°	991.1	979.6	984.3	973.2	972.1
30°	968.3	956.8	961.4	949.6	947.6
32.5°	942.3	931.6	935.4	923.6	922.5
35°	902.4	891.8	894.5	882.7	881.7
37.5°	856.9	847.3	848.9	835.8	834.9
40°	824.6	815.0	815.8	802.0	801.0
42.5°	789.2	779.6	778.8	765.0	764.0
45°	730.2	720.6	717.4	704.5	702.6
47.5°	662.9	653.2	647.3	636.9	635.5
50°	614.1	604.4	599.3	590.4	587.5
52.5°	561.3	551.7	547.3	539.2	536.3
55°	478.3	470.6	467.4	459.5	457.6
57.5°	399.3	394.1	393.2	385.5	384.8
60°	351.3	348.4	348.4	341.5	341.5
62.5°	310.4	308.3	309.8	305.2	304.5
65°	256.8	254.9	257.8	255.9	255.9
67.5°	214.5	214.5	216.3	215.5	215.5
70°	190.9	190.9	191.9	191.9	191.9
72.5°	169.7	168.9	171.4	171.4	170.6
75°	138.8	138.8	138.8	139.7	139.7
77.5°	108.0	108.2	109.0	108.8	108.0
80°	87.6	88.5	88.6	87.6	87.6
82.5°	67.1	68.1	68.1	67.9	67.1
85°	35.4	37.4	39.4	39.4	39.4
87.5°	10.4	14.1	17.1	17.5	16.7
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)