

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: P561777

Luminaire Tested: **SQ4-PR1-025U-050D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P561777  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PR1-025U-050D-92765-1D-UNV-STD-W-4 (2700K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS  
DOWNLIGHT 500 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

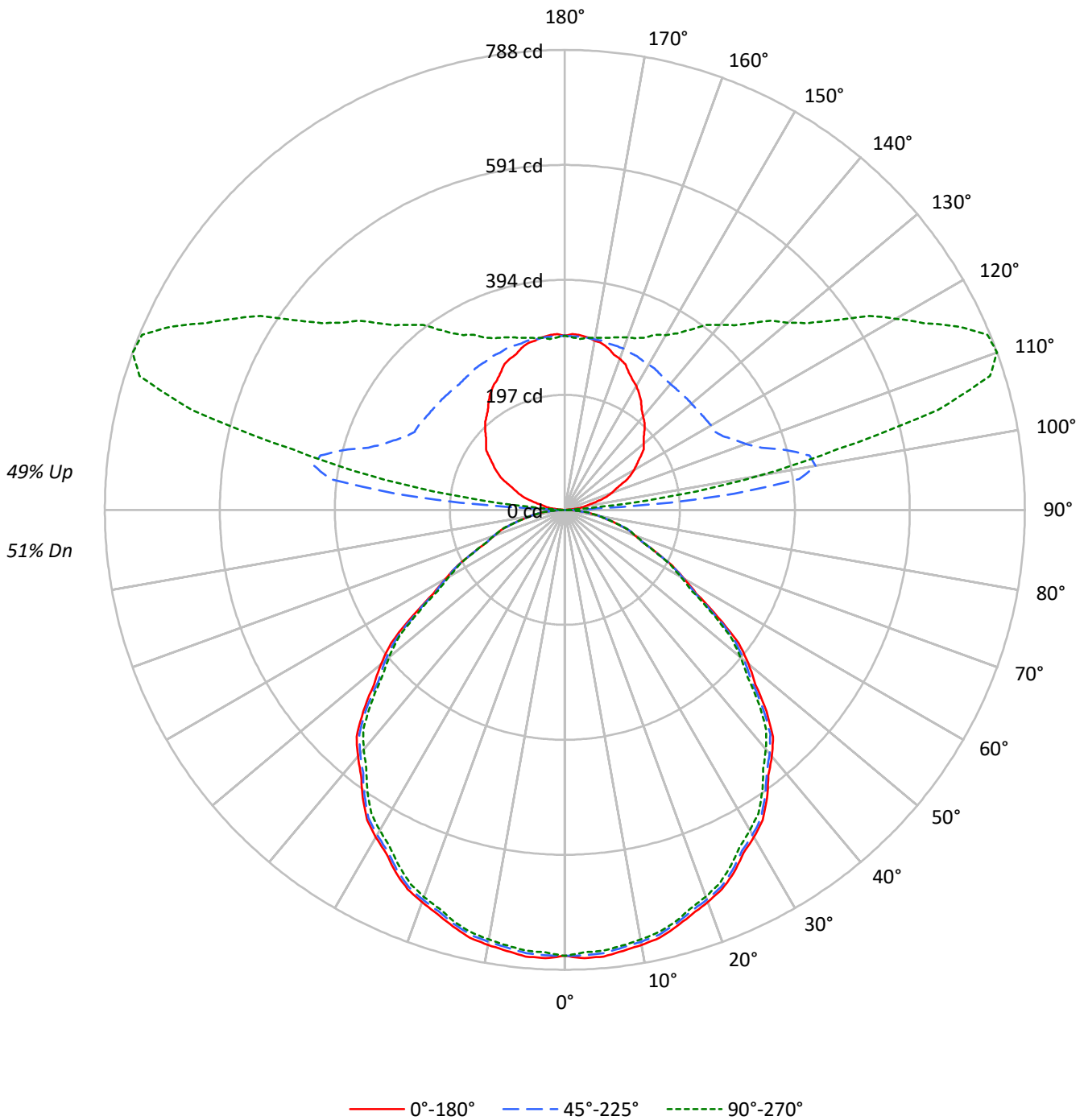
Lumens per Lamp: N/A  
Luminaire Lumens: 3763.2 lumens  
Efficiency: N/A  
Efficacy: 108.8 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 34.6  
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				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	107	107	107	107	99	99	99	99	84	84	84	70	70	70	57	57	57	51		
1	98	94	90	87	91	87	84	81	74	72	69	62	60	59	51	50	49	43		
2	90	82	76	71	83	76	71	67	65	61	58	55	52	49	45	43	41	37		
3	82	73	66	60	75	67	61	56	58	53	49	49	45	42	40	38	36	31		
4	75	65	57	51	69	60	53	48	51	46	42	43	39	36	36	33	31	27		
5	69	58	50	44	64	54	47	41	46	41	36	39	35	32	33	29	27	24		
6	64	52	44	38	59	48	41	36	42	36	32	35	31	28	30	26	24	21		
7	59	47	39	33	54	44	37	32	38	32	28	32	28	25	27	24	21	19		
8	55	42	35	30	50	40	33	28	34	29	25	29	25	22	25	22	19	17		
9	51	39	31	26	47	36	30	25	32	26	22	27	23	20	23	20	17	15		
10	48	36	28	24	44	33	27	22	29	24	20	25	21	18	21	18	16	14		

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

	0°	45°	90°
0°	7050	7050	7050
5°	7114	7059	7022
10°	7091	7041	7005
15°	7060	7016	6978
20°	7024	6979	6928
25°	6975	6927	6847
30°	6899	6850	6752
35°	6797	6739	6642
40°	6642	6571	6452
45°	6373	6260	6131
50°	5895	5753	5639
55°	5146	5028	4922
60°	4336	4299	4215
65°	3751	3764	3735
70°	3445	3461	3461
75°	3308	3308	3333
80°	3114	3145	3114
85°	2509	2784	2784



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.3	1.9
10°-20°	206.7	5.5
20°-30°	311.8	8.3
30°-40°	371.6	9.9
40°-50°	366.3	9.7
50°-60°	280.0	7.4
60°-70°	173.2	4.6
70°-80°	98.4	2.6
80°-90°	29.9	0.8
90°-100°	135.9	3.6
100°-110°	386.8	10.3
110°-120°	370.6	9.8
120°-130°	293.3	7.8
130°-140°	235.4	6.3
140°-150°	184.3	4.9
150°-160°	134.8	3.6
160°-170°	83.5	2.2
170°-180°	28.3	0.8
0°-30°	590.8	15.7
0°-40°	962.4	25.6
0°-60°	1608.6	42.7
0°-90°	1910.2	50.8
90°-120°	893.2	23.7
90°-150°	1606.2	42.7
90°-180°	1853.0	49.2
0°-180°	3763.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	764	764	764	764	764	
5°	768	760	762	760	758	73
15°	739	731	734	732	731	209
25°	685	677	680	673	673	315
35°	604	596	598	590	590	377
45°	488	482	480	471	470	374
55°	320	315	313	307	306	287
65°	172	170	172	171	171	174
75°	93	93	93	94	94	98
85°	24	25	26	26	26	28
90°	0	0	0	0	0	2
95°	15	59	263	91	56	17
105°	60	91	394	696	662	64
115°	112	135	299	633	744	110
125°	158	175	285	473	566	141
135°	193	209	282	400	452	149
145°	227	239	284	346	377	142
155°	260	266	291	313	326	120
165°	287	288	294	301	305	81
175°	301	299	298	296	294	28
180°	298	298	298	298	298	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	764.1	764.1	764.1	764.1	764.1
2.5°	768.9	762.2	764.1	762.5	758.9
5°	768.1	759.7	762.2	759.5	758.2
7.5°	762.2	753.9	756.4	753.7	752.9
10°	756.9	749.2	751.6	749.0	747.7
12.5°	751.1	742.9	745.8	742.6	741.4
15°	739.1	731.4	734.5	731.9	730.6
17.5°	726.0	717.7	720.8	717.8	716.1
20°	715.4	707.7	710.8	706.2	705.6
22.5°	703.8	696.1	699.2	693.0	692.9
25°	685.2	676.8	680.5	673.3	672.6
27.5°	662.9	655.2	658.3	650.9	650.1
30°	647.6	639.9	643.0	635.1	633.8
32.5°	630.3	623.1	625.7	617.7	617.0
35°	603.5	596.5	598.3	590.4	589.7
37.5°	573.1	566.7	567.7	559.0	558.4
40°	551.5	545.1	545.6	536.4	535.7
42.5°	527.8	521.4	520.9	511.6	511.0
45°	488.4	481.9	479.8	471.2	469.9
47.5°	443.3	436.9	432.9	425.9	425.0
50°	410.7	404.3	400.8	394.9	392.9
52.5°	375.4	369.0	366.1	360.6	358.7
55°	319.9	314.7	312.6	307.3	306.0
57.5°	267.1	263.6	263.0	257.9	257.3
60°	235.0	233.0	233.0	228.4	228.4
62.5°	207.6	206.2	207.2	204.2	203.6
65°	171.8	170.5	172.4	171.1	171.1
67.5°	143.5	143.5	144.7	144.1	144.1
70°	127.7	127.7	128.3	128.3	128.3
72.5°	113.5	113.0	114.7	114.6	114.1
75°	92.8	92.8	92.8	93.5	93.5
77.5°	72.3	72.4	72.9	72.8	72.3
80°	58.6	59.2	59.2	58.6	58.6
82.5°	44.9	45.5	45.5	45.4	44.9
85°	23.7	25.0	26.3	26.3	26.3
87.5°	6.8	8.9	10.5	10.5	10.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	4.5	24.1	55.8	16.2	12.2
95°	14.7	58.6	263.1	91.1	56.1
97.5°	27.1	68.6	405.3	290.0	198.7
100°	35.7	74.5	436.1	441.7	340.3
102.5°	45.3	81.0	429.3	565.4	476.8
105°	60.1	91.2	394.1	696.2	661.8
107.5°	75.2	103.0	353.1	733.1	763.7
110°	85.6	111.7	329.5	719.0	787.7

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	95.6	120.3	313.6	685.6	783.6
115°	111.7	135.0	298.9	633.1	743.5
117.5°	125.9	147.7	290.1	575.8	692.7
120°	137.2	155.5	289.2	543.0	655.0
122.5°	146.3	164.6	287.0	514.2	618.3
125°	157.7	174.8	285.3	473.4	566.0
127.5°	170.0	186.1	284.3	449.0	525.3
130°	176.4	192.5	283.0	431.9	498.5
132.5°	183.2	198.8	283.0	418.7	479.9
135°	192.8	208.9	281.9	399.9	452.0
137.5°	201.9	217.5	281.7	383.9	429.0
140°	208.7	224.8	281.3	370.7	414.0
142.5°	216.4	229.8	282.6	360.2	399.0
145°	227.4	239.1	284.1	346.1	377.1
147.5°	236.8	248.1	286.6	331.8	358.6
150°	245.0	252.8	287.5	327.1	345.9
152.5°	251.3	259.6	288.4	320.7	338.2
155°	259.7	265.8	290.9	312.8	325.5
157.5°	270.2	273.8	291.5	309.2	318.3
160°	275.6	278.4	293.8	306.4	314.2
162.5°	278.8	282.0	294.2	304.1	310.1
165°	287.0	288.1	294.3	300.7	305.1
167.5°	292.5	291.5	296.9	299.8	301.6
170°	294.3	293.8	296.0	296.6	298.9
172.5°	298.4	296.5	297.4	295.7	297.5
175°	300.6	298.9	297.7	296.0	293.8
177.5°	301.5	298.8	297.4	295.6	296.0
180°	298.3	298.3	298.3	298.3	298.3

(END OF REPORT)