

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: P563182

Luminaire Tested: **SQ4-PP3-025U-050D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563182
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-4
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

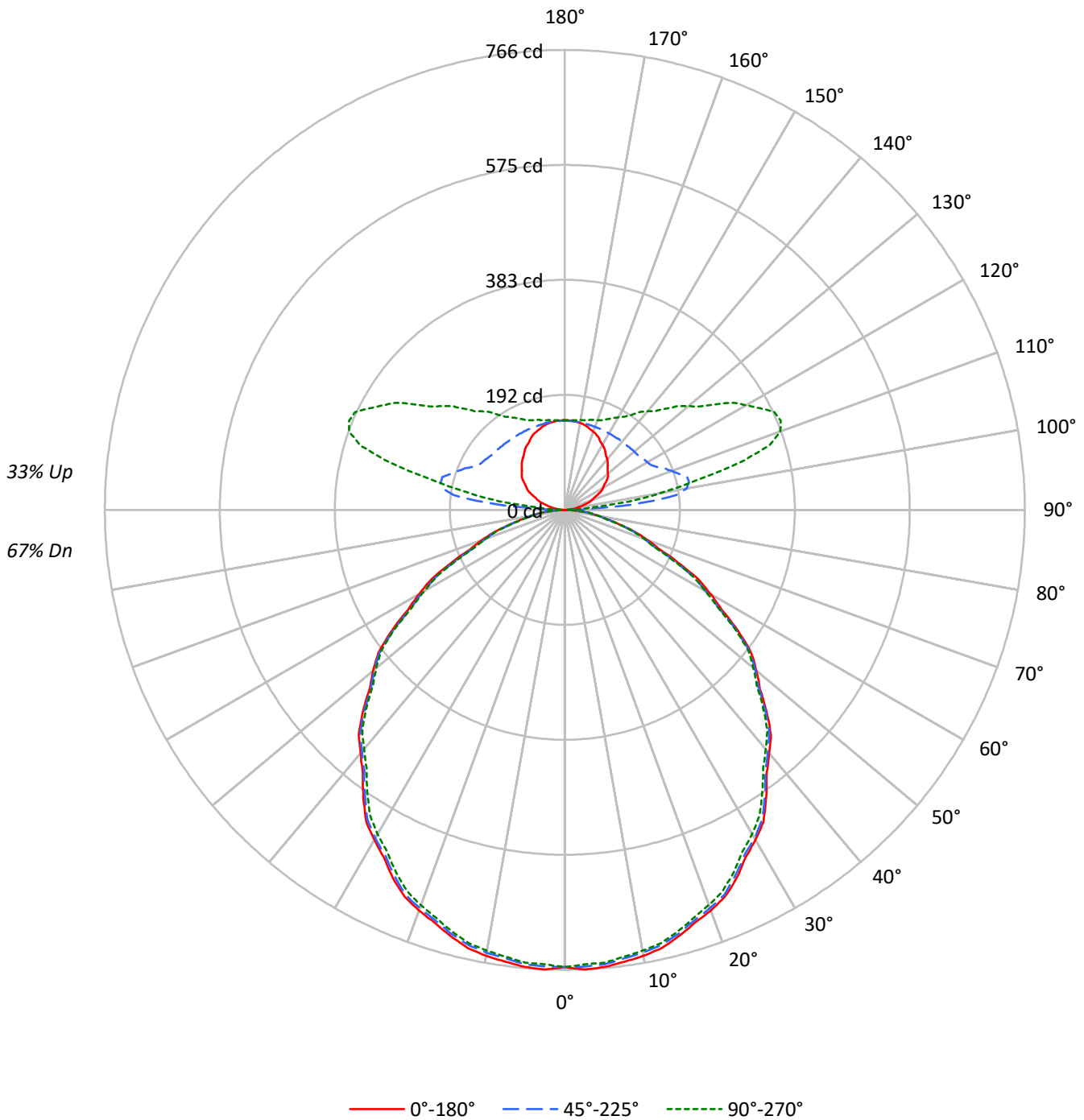
Lumens per Lamp: N/A
Luminaire Lumens: 2916.1 lumens
Efficiency: N/A
Efficacy: 131.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 22.1
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	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°	7079	7035	7011
10°	7067	7016	6985
15°	7020	6981	6943
20°	6973	6934	6882
25°	6891	6843	6775
30°	6763	6728	6642
35°	6586	6540	6458
40°	6375	6335	6263
45°	6202	6157	6097
50°	5978	5941	5882
55°	5668	5594	5551
60°	5161	5014	4988
65°	4547	4357	4342
70°	3925	3763	3763
75°	3379	3333	3283
80°	2981	3013	2943
85°	2329	2541	2541



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	2.5
10°-20°	205.6	7.1
20°-30°	308.0	10.6
30°-40°	361.3	12.4
40°-50°	362.4	12.4
50°-60°	309.2	10.6
60°-70°	201.6	6.9
70°-80°	101.2	3.5
80°-90°	28.8	1.0
90°-100°	72.6	2.5
100°-110°	190.9	6.5
110°-120°	198.0	6.8
120°-130°	158.8	5.4
130°-140°	124.6	4.3
140°-150°	95.6	3.3
150°-160°	68.9	2.4
160°-170°	42.1	1.4
170°-180°	14.2	0.5
0°-30°	585.7	20.1
0°-40°	947.0	32.5
0°-60°	1618.6	55.5
0°-90°	1950.2	66.9
90°-120°	461.6	15.8
90°-150°	840.6	28.8
90°-180°	966.0	33.1
0°-180°	2916.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	762	762	762	762	762	
5°	764	757	760	757	757	73
15°	735	728	731	728	727	207
25°	677	669	672	666	666	311
35°	585	579	581	574	573	365
45°	475	472	472	467	467	366
55°	352	351	348	346	345	313
65°	208	204	200	198	199	208
75°	95	95	94	93	92	103
85°	22	24	24	24	24	26
90°	1	3	8	4	4	2
95°	10	38	125	64	44	11
105°	34	52	211	320	299	36
115°	61	74	169	337	385	60
125°	85	95	154	260	307	75
135°	101	112	149	210	238	78
145°	118	125	147	179	193	74
155°	133	136	147	162	166	61
165°	143	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	761.6	761.6	761.6	761.6	761.6
2.5°	766.4	760.2	761.6	760.5	757.4
5°	764.3	757.1	759.6	757.0	757.0
7.5°	759.1	751.3	753.7	751.1	750.9
10°	754.3	746.5	748.9	746.3	745.6
12.5°	747.3	739.5	742.5	739.3	739.2
15°	734.9	727.7	730.9	728.2	726.9
17.5°	720.9	713.1	716.9	713.2	712.6
20°	710.2	702.4	706.2	700.9	700.9
22.5°	697.4	689.6	693.9	687.0	687.0
25°	676.9	669.0	672.2	666.2	665.5
27.5°	652.4	644.7	648.0	641.2	641.1
30°	634.8	627.6	631.5	624.1	623.5
32.5°	615.6	608.9	611.7	604.3	603.7
35°	584.7	578.9	580.7	574.0	573.4
37.5°	552.3	546.3	548.4	542.7	542.4
40°	529.3	525.4	526.0	521.3	520.0
42.5°	508.0	503.5	504.1	499.4	499.2
45°	475.3	472.0	471.9	467.3	467.3
47.5°	440.6	438.1	437.4	433.5	433.3
50°	416.5	414.6	413.9	410.5	409.8
52.5°	391.4	390.5	388.2	385.4	385.3
55°	352.4	351.1	347.8	345.8	345.1
57.5°	310.1	307.5	303.7	300.8	301.3
60°	279.7	277.1	271.7	270.3	270.3
62.5°	250.3	247.2	241.8	239.9	241.0
65°	208.3	204.3	199.6	198.3	198.9
67.5°	170.1	166.6	161.4	161.4	160.9
70°	145.5	143.6	139.5	139.5	139.5
72.5°	123.6	122.7	119.8	119.7	119.2
75°	94.8	94.8	93.5	92.8	92.1
77.5°	71.0	71.3	70.6	69.9	68.8
80°	56.1	57.4	56.7	56.1	55.4
82.5°	42.2	43.5	43.4	42.2	42.1
85°	22.0	24.0	24.0	24.0	24.0
87.5°	6.1	8.5	10.1	9.3	9.8
90°	1.0	2.8	7.6	3.8	3.8
92.5°	4.0	19.3	42.8	19.0	12.2
95°	9.6	37.6	125.1	64.5	43.9
97.5°	16.6	41.3	187.2	148.9	109.7
100°	22.0	44.4	206.3	209.1	162.4
102.5°	26.6	47.5	211.7	260.5	220.5
105°	34.4	52.1	211.1	320.5	299.0
107.5°	42.4	58.9	199.1	351.7	356.9
110°	47.8	62.7	189.1	359.7	382.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.1	67.3	180.0	354.6	389.0
115°	61.1	74.2	169.1	337.3	385.0
117.5°	69.0	80.9	161.6	313.4	366.3
120°	73.6	84.8	158.6	297.3	348.7
122.5°	78.1	89.4	156.3	281.2	331.9
125°	85.0	95.3	153.8	259.9	306.6
127.5°	90.6	101.0	151.7	242.8	282.2
130°	93.6	104.8	150.9	232.0	268.4
132.5°	96.7	107.9	150.2	222.8	255.4
135°	101.3	111.5	149.0	209.8	237.9
137.5°	106.0	116.1	148.8	200.2	223.2
140°	109.9	119.2	148.1	192.5	214.0
142.5°	112.9	121.5	148.1	187.1	205.6
145°	117.5	125.0	147.1	179.0	193.0
147.5°	122.1	129.4	147.1	172.2	183.8
150°	125.1	131.7	147.1	168.3	177.7
152.5°	128.2	133.2	147.1	165.2	172.3
155°	132.8	136.5	147.1	161.5	166.2
157.5°	136.2	139.8	147.1	158.3	161.6
160°	138.5	141.3	147.1	156.7	158.6
162.5°	140.8	142.9	147.1	155.2	157.0
165°	143.3	145.2	147.1	152.9	154.8
167.5°	145.6	146.5	148.1	151.9	152.7
170°	147.1	148.0	148.1	151.9	151.9
172.5°	147.9	148.1	148.1	151.1	150.4
175°	149.0	149.0	148.1	150.0	150.0
177.5°	149.0	149.0	148.3	149.8	149.0
180°	149.0	149.0	149.0	149.0	149.0

(END OF REPORT)