

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: P563186

Luminaire Tested: **SQ4-PP3-025U-050D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563186
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-840-1D-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: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

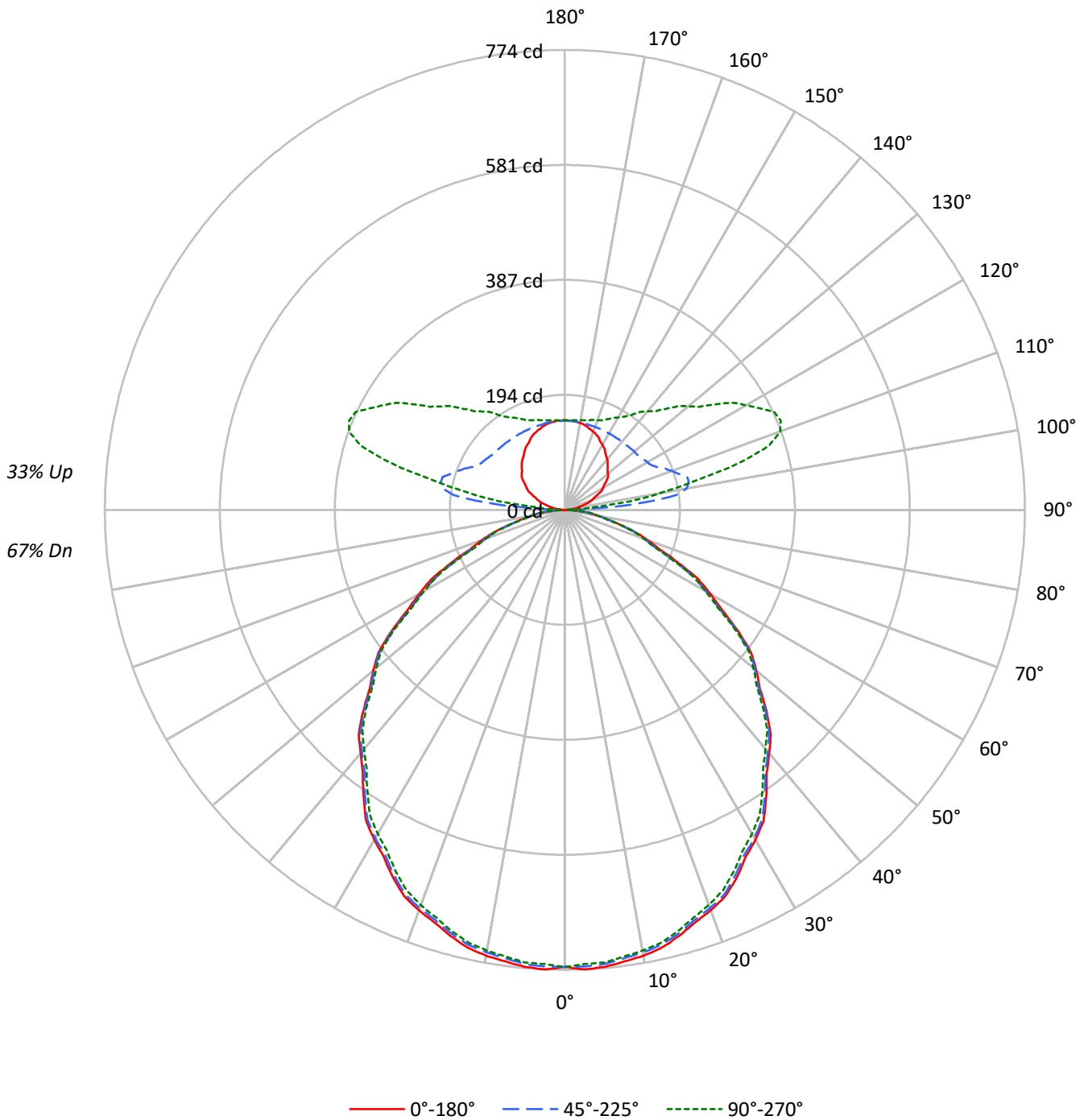
Lumens per Lamp: N/A
Luminaire Lumens: 2945.4 lumens
Efficiency: N/A
Efficacy: 133.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

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	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°	7098	7098	7098
5°	7150	7106	7081
10°	7138	7087	7055
15°	7090	7052	7013
20°	7044	7003	6950
25°	6960	6911	6843
30°	6831	6795	6709
35°	6652	6607	6524
40°	6440	6399	6325
45°	6263	6220	6159
50°	6038	6000	5942
55°	5726	5651	5607
60°	5213	5063	5039
65°	4593	4401	4386
70°	3965	3801	3801
75°	3411	3365	3315
80°	3007	3044	2975
85°	2350	2572	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	2.5
10°-20°	207.7	7.1
20°-30°	311.1	10.6
30°-40°	364.9	12.4
40°-50°	366.1	12.4
50°-60°	312.3	10.6
60°-70°	203.7	6.9
70°-80°	102.2	3.5
80°-90°	29.1	1.0
90°-100°	73.4	2.5
100°-110°	192.9	6.5
110°-120°	200.0	6.8
120°-130°	160.4	5.4
130°-140°	125.9	4.3
140°-150°	96.6	3.3
150°-160°	69.6	2.4
160°-170°	42.6	1.4
170°-180°	14.4	0.5
0°-30°	591.6	20.1
0°-40°	956.5	32.5
0°-60°	1634.8	55.5
0°-90°	1969.8	66.9
90°-120°	466.2	15.8
90°-150°	849.1	28.8
90°-180°	976.0	33.1
0°-180°	2945.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	769	769	769	769	769	
5°	772	765	767	765	765	73
15°	742	735	738	736	734	209
25°	684	676	679	673	672	314
35°	591	585	587	580	579	369
45°	480	477	477	472	472	370
55°	356	355	351	349	349	316
65°	210	206	202	200	201	210
75°	96	96	94	94	93	104
85°	22	24	24	24	24	26
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	769.3	769.3	769.3	769.3	769.3
2.5°	774.1	767.8	769.3	768.1	765.0
5°	772.0	764.7	767.3	764.6	764.6
7.5°	766.7	758.8	761.3	758.6	758.5
10°	761.9	754.0	756.5	753.8	753.1
12.5°	754.9	747.0	750.0	746.8	746.6
15°	742.3	735.1	738.3	735.5	734.2
17.5°	728.2	720.3	724.1	720.3	719.8
20°	717.4	709.5	713.3	707.9	707.9
22.5°	704.4	696.5	700.9	693.9	693.9
25°	683.7	675.8	678.9	672.9	672.2
27.5°	659.0	651.2	654.5	647.7	647.5
30°	641.2	633.9	637.8	630.4	629.7
32.5°	621.8	615.0	617.9	610.4	609.8
35°	590.6	584.7	586.6	579.8	579.2
37.5°	557.9	551.8	553.9	548.1	547.9
40°	534.7	530.7	531.3	526.5	525.2
42.5°	513.1	508.6	509.2	504.4	504.2
45°	480.0	476.8	476.7	472.0	472.0
47.5°	445.0	442.5	441.8	437.8	437.7
50°	420.7	418.7	418.0	414.6	414.0
52.5°	395.4	394.4	392.1	389.3	389.2
55°	356.0	354.7	351.3	349.2	348.6
57.5°	313.2	310.6	306.8	303.8	304.3
60°	282.5	279.9	274.4	273.1	273.1
62.5°	252.8	249.7	244.2	242.3	243.4
65°	210.4	206.4	201.6	200.3	200.9
67.5°	171.8	168.2	163.0	163.0	162.5
70°	147.0	145.0	140.9	140.9	140.9
72.5°	124.9	123.9	121.0	120.9	120.4
75°	95.7	95.7	94.4	93.7	93.0
77.5°	71.7	72.0	71.3	70.6	69.4
80°	56.6	58.0	57.3	56.6	56.0
82.5°	42.6	43.9	43.8	42.6	42.5
85°	22.2	24.2	24.3	24.3	24.3
87.5°	6.1	8.6	10.2	9.4	9.9
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)