

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: P563958

Luminaire Tested: **SQ4-PR1-050U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563958
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-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

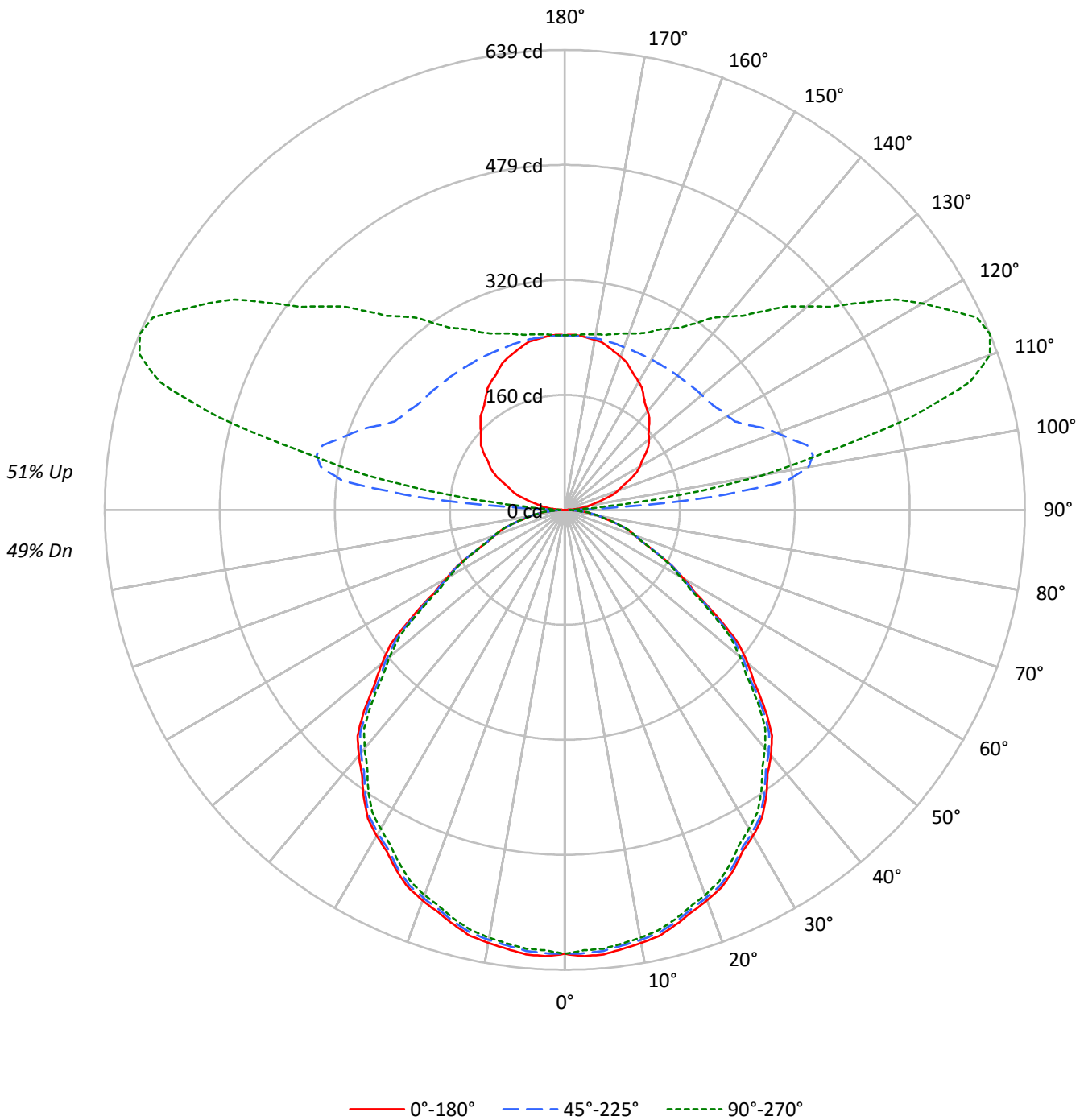
Lumens per Lamp: N/A
Luminaire Lumens: 3128.1 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	49						
1	98	94	90	86	90	87	83	80	73	71	69	61	59	58	49	48	47	42						
2	89	82	76	71	82	76	71	66	64	61	57	54	51	49	44	42	40	36						
3	82	72	65	60	75	67	61	56	57	52	48	48	44	41	39	37	35	31						
4	75	64	56	51	69	60	53	48	51	46	42	43	39	36	35	32	30	26						
5	69	57	49	43	63	53	46	41	46	40	36	38	34	31	32	29	26	23						
6	63	51	43	38	58	48	41	36	41	36	31	35	31	27	29	26	23	20						
7	59	47	39	33	54	43	36	31	37	32	28	32	27	24	26	23	21	18						
8	54	42	35	29	50	39	33	28	34	29	25	29	25	22	24	21	19	16						
9	51	39	31	26	47	36	29	25	31	26	22	27	22	19	22	19	17	15						
10	47	35	28	23	44	33	27	22	29	24	20	25	20	18	21	18	15	13						

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5691	5691	5691
5°	5742	5698	5669
10°	5724	5684	5655
15°	5699	5663	5633
20°	5670	5634	5593
25°	5631	5593	5528
30°	5570	5530	5450
35°	5487	5439	5361
40°	5362	5304	5209
45°	5143	5053	4949
50°	4758	4645	4553
55°	4153	4060	3975
60°	3500	3471	3403
65°	3028	3039	3015
70°	2781	2795	2795
75°	2670	2670	2688
80°	2513	2540	2513
85°	2022	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.3	1.9
10°-20°	166.9	5.3
20°-30°	251.7	8.0
30°-40°	299.9	9.6
40°-50°	295.7	9.5
50°-60°	226.0	7.2
60°-70°	139.9	4.5
70°-80°	79.4	2.5
80°-90°	25.1	0.8
90°-100°	116.5	3.7
100°-110°	316.6	10.1
110°-120°	325.5	10.4
120°-130°	260.2	8.3
130°-140°	204.5	6.5
140°-150°	156.8	5.0
150°-160°	112.8	3.6
160°-170°	69.0	2.2
170°-180°	23.2	0.7
0°-30°	477.0	15.2
0°-40°	776.9	24.8
0°-60°	1298.6	41.5
0°-90°	1543.0	49.3
90°-120°	758.6	24.3
90°-150°	1380.1	44.1
90°-180°	1585.0	50.7
0°-180°	3128.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	617	617	617	617	617	
5°	620	613	615	613	612	59
15°	597	590	593	591	590	168
25°	553	546	549	544	543	255
35°	487	482	483	477	476	304
45°	394	389	387	380	379	302
55°	258	254	252	248	247	231
65°	139	138	139	138	138	140
75°	75	75	75	75	75	79
85°	19	20	21	21	21	22
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	616.8	616.8	616.8	616.8	616.8
2.5°	620.7	615.3	616.8	615.5	612.6
5°	620.0	613.3	615.2	613.1	612.1
7.5°	615.2	608.6	610.6	608.4	607.8
10°	611.0	604.8	606.7	604.6	603.6
12.5°	606.3	599.7	602.1	599.5	598.5
15°	596.6	590.4	592.9	590.8	589.7
17.5°	586.0	579.4	581.9	579.4	578.1
20°	577.5	571.3	573.8	570.1	569.6
22.5°	568.2	561.9	564.5	559.5	559.3
25°	553.1	546.3	549.4	543.5	543.0
27.5°	535.1	528.9	531.4	525.4	524.8
30°	522.8	516.6	519.1	512.7	511.6
32.5°	508.8	503.0	505.1	498.7	498.0
35°	487.2	481.5	482.9	476.6	476.0
37.5°	462.7	457.5	458.3	451.3	450.8
40°	445.2	440.0	440.4	433.0	432.5
42.5°	426.1	420.9	420.5	413.0	412.5
45°	394.2	389.0	387.3	380.4	379.3
47.5°	357.9	352.7	349.5	343.8	343.1
50°	331.5	326.3	323.6	318.7	317.2
52.5°	303.1	297.9	295.5	291.1	289.6
55°	258.2	254.1	252.4	248.1	247.1
57.5°	215.6	212.8	212.3	208.2	207.7
60°	189.7	188.1	188.1	184.4	184.4
62.5°	167.6	166.4	167.3	164.8	164.4
65°	138.7	137.6	139.2	138.1	138.1
67.5°	115.8	115.8	116.8	116.4	116.4
70°	103.1	103.1	103.6	103.6	103.6
72.5°	91.6	91.2	92.6	92.5	92.1
75°	74.9	74.9	74.9	75.4	75.4
77.5°	58.3	58.4	58.9	58.8	58.3
80°	47.3	47.8	47.8	47.3	47.3
82.5°	36.2	36.8	36.8	36.7	36.2
85°	19.1	20.2	21.3	21.3	21.3
87.5°	5.7	7.8	9.6	9.9	9.5
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)