

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: P562200

Luminaire Tested: **SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562200
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (6500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

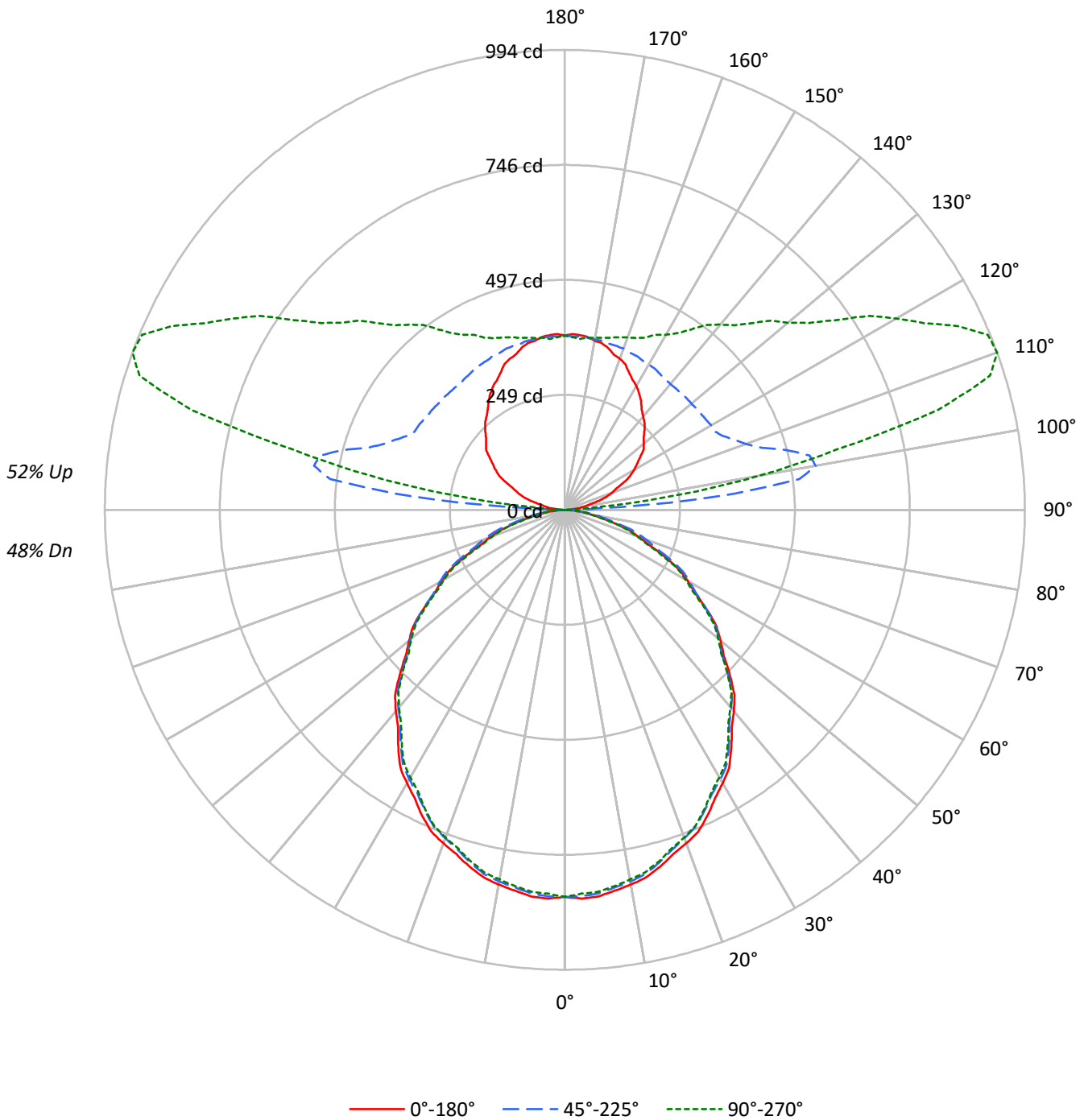
Lumens per Lamp: N/A
Luminaire Lumens: 4465.9 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.2
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33	29
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	22
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22	19
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	20	23	20	17	15
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7716	7716	7716
5°	7766	7705	7670
10°	7704	7642	7601
15°	7622	7538	7510
20°	7532	7416	7401
25°	7426	7291	7269
30°	7269	7159	7112
35°	7063	6963	6921
40°	6842	6736	6710
45°	6576	6490	6461
50°	6304	6251	6208
55°	6010	6010	5915
60°	5643	5752	5547
65°	5163	5421	5034
70°	4551	4990	4432
75°	3889	4467	3782
80°	3013	3756	3055
85°	1948	2890	2572



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	1.8
10°-20°	222.3	5.0
20°-30°	329.8	7.4
30°-40°	385.9	8.6
40°-50°	384.2	8.6
50°-60°	331.8	7.4
60°-70°	238.8	5.3
70°-80°	125.2	2.8
80°-90°	31.1	0.7
90°-100°	171.5	3.8
100°-110°	488.0	10.9
110°-120°	467.6	10.5
120°-130°	370.1	8.3
130°-140°	297.0	6.7
140°-150°	232.5	5.2
150°-160°	170.1	3.8
160°-170°	105.4	2.4
170°-180°	35.8	0.8
0°-30°	630.9	14.1
0°-40°	1016.8	22.8
0°-60°	1732.8	38.8
0°-90°	2127.9	47.6
90°-120°	1127.1	25.2
90°-150°	2026.7	45.4
90°-180°	2338.0	52.4
0°-180°	4465.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	838	829	832	830	828	79
15°	798	788	789	788	786	225
25°	730	717	716	712	714	335
35°	627	618	618	612	614	392
45°	504	500	497	496	495	389
55°	374	373	374	368	368	333
65°	236	244	248	239	231	234
75°	109	119	125	117	106	117
85°	18	24	27	26	24	24
90°	0	0	0	0	0	1
95°	19	74	332	115	71	21
105°	76	115	497	878	835	80
115°	141	170	377	799	938	139
125°	199	221	360	597	714	178
135°	243	264	356	504	570	188
145°	287	302	358	437	476	179
155°	328	335	367	395	411	151
165°	362	364	371	379	385	102
175°	379	377	376	374	371	36
180°	376	376	376	376	376	

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CATALOG NUMBER: SQ4-PW1-050U-050D-92765-1D-UNV-STD-W-4 (6500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	836.3	836.3	836.3	836.3	836.3
2.5°	841.1	834.1	836.3	834.5	830.4
5°	838.5	829.2	831.9	829.7	828.2
7.5°	830.0	821.4	823.4	821.0	820.1
10°	822.3	813.7	815.7	812.7	811.3
12.5°	813.5	804.3	806.3	803.3	802.4
15°	798.0	787.9	789.2	787.7	786.2
17.5°	780.0	769.8	770.0	767.7	767.4
20°	767.1	756.3	755.3	752.4	753.8
22.5°	752.9	741.5	740.5	736.5	738.5
25°	729.5	717.2	716.2	711.9	714.0
27.5°	702.4	690.3	690.3	684.2	686.5
30°	682.3	670.8	672.0	664.7	667.6
32.5°	661.1	650.7	651.4	644.1	647.0
35°	627.1	618.4	618.2	612.4	614.5
37.5°	592.3	584.7	583.4	580.1	580.6
40°	568.1	561.6	559.3	557.1	557.1
42.5°	542.8	536.9	534.5	532.9	532.3
45°	504.0	499.7	497.4	495.9	495.2
47.5°	465.7	461.7	459.7	458.6	457.9
50°	439.2	436.3	435.5	433.3	432.5
52.5°	412.6	410.9	410.1	407.3	406.6
55°	373.6	372.9	373.6	368.4	367.7
57.5°	332.9	334.1	336.5	329.5	327.8
60°	305.8	308.7	311.7	303.5	300.6
62.5°	278.1	282.7	286.9	277.6	273.5
65°	236.5	243.7	248.3	238.6	230.6
67.5°	196.4	205.4	210.9	200.4	191.4
70°	168.7	178.8	185.0	174.4	164.3
72.5°	144.6	155.8	160.8	150.8	140.7
75°	109.1	119.1	125.3	116.9	106.1
77.5°	77.4	86.9	92.0	84.7	75.7
80°	56.7	66.8	70.7	64.7	57.5
82.5°	40.2	48.6	51.3	47.6	42.7
85°	18.4	24.2	27.3	25.8	24.3
87.5°	4.7	8.8	11.2	11.2	11.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.4	70.4	20.5	15.5
95°	18.6	73.9	332.0	114.9	70.8
97.5°	34.2	86.5	511.3	365.9	250.7
100°	45.1	94.1	550.3	557.4	429.3
102.5°	57.1	102.2	541.7	713.5	601.6
105°	75.8	115.0	497.3	878.4	835.1
107.5°	94.9	130.0	445.5	925.0	963.6
110°	108.1	140.9	415.7	907.2	993.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	120.6	151.8	395.7	865.1	988.8
115°	141.0	170.4	377.1	798.9	938.1
117.5°	158.9	186.4	366.1	726.5	874.0
120°	173.2	196.3	364.9	685.1	826.5
122.5°	184.6	207.7	362.1	648.9	780.1
125°	198.9	220.6	359.9	597.3	714.1
127.5°	214.5	234.8	358.8	566.5	662.8
130°	222.5	242.8	357.1	545.0	629.0
132.5°	231.1	250.9	357.1	528.3	605.5
135°	243.3	263.6	355.6	504.5	570.3
137.5°	254.7	274.5	355.5	484.4	541.3
140°	263.3	283.6	354.9	467.8	522.4
142.5°	273.1	290.0	356.6	454.5	503.5
145°	286.9	301.6	358.5	436.7	475.8
147.5°	298.8	313.1	361.6	418.7	452.5
150°	309.1	318.9	362.8	412.7	436.5
152.5°	317.1	327.5	363.9	404.7	426.8
155°	327.7	335.4	367.1	394.6	410.7
157.5°	340.9	345.5	367.8	390.1	401.6
160°	347.8	351.3	370.7	386.6	396.4
162.5°	351.8	355.8	371.2	383.7	391.3
165°	362.1	363.5	371.4	379.4	385.0
167.5°	369.1	367.8	374.7	378.3	380.5
170°	371.4	370.7	373.5	374.3	377.1
172.5°	376.5	374.2	375.2	373.1	375.4
175°	379.2	377.1	375.7	373.5	370.7
177.5°	380.4	377.0	375.2	373.0	373.5
180°	376.4	376.4	376.4	376.4	376.4

(END OF REPORT)