

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: P562252

Luminaire Tested: **SQ4-PW1-075U-050D-92765-1D-UNV-STD-W-4 (6500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562252
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-PW1-075U-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 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 6500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

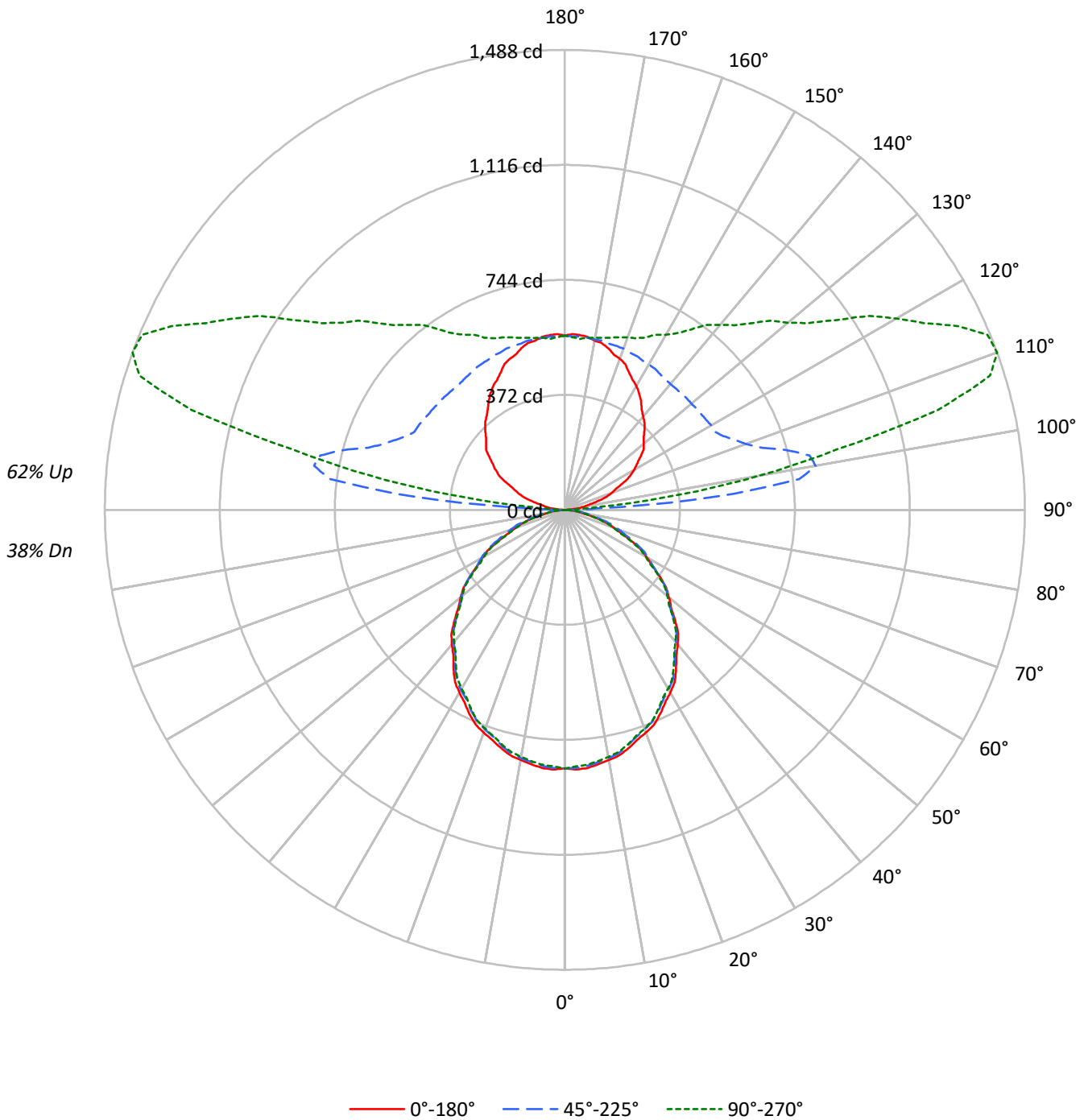
Lumens per Lamp: N/A
Luminaire Lumens: 5627.6 lumens
Efficiency: N/A
Efficacy: 127.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 44
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	53	52	48	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	37	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	27	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

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	1.4
10°-20°	222.3	4.0
20°-30°	329.8	5.9
30°-40°	385.9	6.9
40°-50°	384.2	6.8
50°-60°	331.8	5.9
60°-70°	238.8	4.2
70°-80°	125.2	2.2
80°-90°	31.1	0.6
90°-100°	256.7	4.6
100°-110°	730.5	13.0
110°-120°	699.9	12.4
120°-130°	553.9	9.8
130°-140°	444.6	7.9
140°-150°	348.1	6.2
150°-160°	254.7	4.5
160°-170°	157.8	2.8
170°-180°	53.5	1.0
0°-30°	630.9	11.2
0°-40°	1016.8	18.1
0°-60°	1732.8	30.8
0°-90°	2127.9	37.8
90°-120°	1687.1	30.0
90°-150°	3033.8	53.9
90°-180°	3500.0	62.2
0°-180°	5627.6	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	2
95°	28	111	497	172	106	32
105°	114	172	744	1315	1250	120
115°	211	255	564	1196	1404	208
125°	298	330	539	894	1069	267
135°	364	395	532	755	854	281
145°	430	452	537	654	712	268
155°	491	502	550	591	615	227
165°	542	544	556	568	576	152
175°	568	565	562	559	555	54
180°	563	563	563	563	563	

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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°	8.6	45.4	105.4	30.7	23.1
95°	27.8	110.6	497.0	172.0	106.0
97.5°	51.2	129.5	765.4	547.7	375.3
100°	67.5	140.8	823.7	834.3	642.7
102.5°	85.5	152.9	810.8	1068.0	900.6
105°	113.5	172.2	744.4	1314.9	1250.0
107.5°	142.0	194.6	666.9	1384.6	1442.4
110°	161.7	211.0	622.3	1357.9	1487.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	180.6	227.3	592.3	1294.9	1480.1
115°	211.0	255.0	564.5	1195.8	1404.3
117.5°	237.8	279.1	548.0	1087.5	1308.3
120°	259.2	293.8	546.3	1025.6	1237.2
122.5°	276.4	310.9	542.0	971.3	1167.7
125°	297.8	330.2	538.8	894.1	1069.0
127.5°	321.1	351.5	537.1	848.0	992.1
130°	333.1	363.5	534.5	815.8	941.5
132.5°	346.0	375.5	534.5	790.8	906.4
135°	364.2	394.6	532.4	755.2	853.7
137.5°	381.3	410.9	532.1	725.2	810.2
140°	394.2	424.5	531.3	700.2	781.9
142.5°	408.7	434.1	533.9	680.3	753.6
145°	429.5	451.5	536.6	653.7	712.3
147.5°	447.3	468.7	541.4	626.7	677.4
150°	462.7	477.4	543.1	617.8	653.4
152.5°	474.7	490.2	544.8	605.7	638.8
155°	490.6	502.1	549.5	590.7	614.8
157.5°	510.3	517.2	550.6	583.9	601.1
160°	520.6	525.8	554.8	578.7	593.4
162.5°	526.6	532.6	555.7	574.4	585.7
165°	542.0	544.1	555.9	567.9	576.3
167.5°	552.5	550.6	560.8	566.3	569.6
170°	555.9	554.9	559.1	560.3	564.5
172.5°	563.6	560.1	561.7	558.6	561.9
175°	567.7	564.6	562.3	559.0	554.8
177.5°	569.4	564.4	561.7	558.3	559.1
180°	563.4	563.4	563.4	563.4	563.4

(END OF REPORT)