

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: P564719

Luminaire Tested: **SQ4-PW1-075U-050D-835-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564719
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-22, 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-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

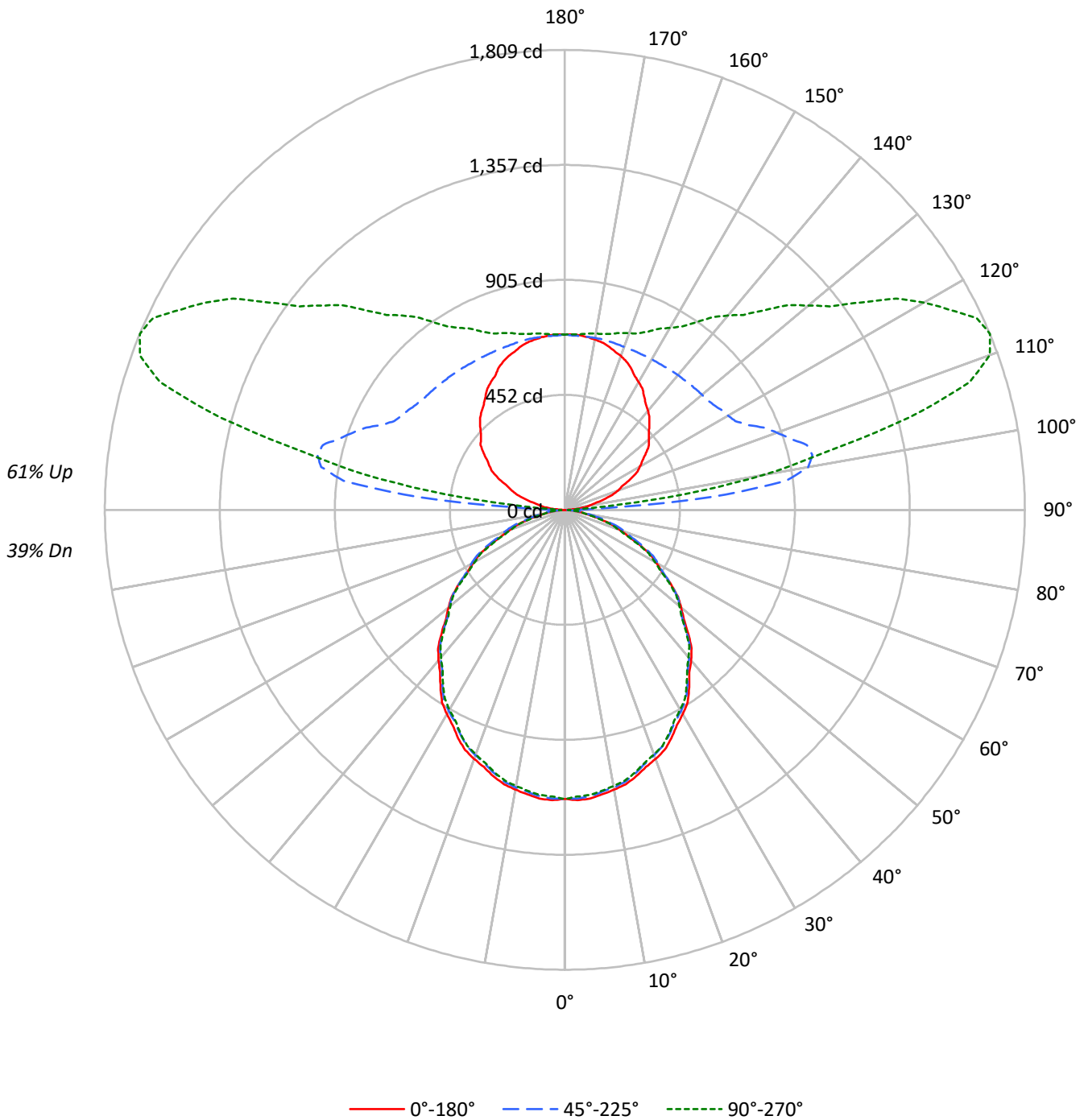
Lumens per Lamp: N/A
Luminaire Lumens: 7384.5 lumens
Efficiency: N/A
Efficacy: 136.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 54.3
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	63	59	56	53	47	45	43	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	39	36	32	30	28	24
4	73	62	54	48	66	57	50	45	47	42	38	37	34	31	29	26	24	20
5	67	55	47	41	60	50	44	38	42	36	32	33	30	27	26	23	21	18
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	27	24	21	21	19	17	14
8	52	40	33	28	48	37	30	26	31	26	22	25	21	18	20	17	15	12
9	49	37	29	24	44	34	27	23	28	23	20	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6992	6992	6992
5°	7037	6981	6950
10°	6981	6925	6887
15°	6906	6830	6805
20°	6824	6719	6706
25°	6729	6607	6586
30°	6587	6487	6445
35°	6400	6310	6272
40°	6200	6103	6079
45°	5959	5880	5854
50°	5712	5664	5626
55°	5445	5445	5359
60°	5113	5211	5026
65°	4679	4912	4563
70°	4124	4521	4016
75°	3522	4047	3427
80°	2731	3404	2766
85°	1764	2618	2329



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.0	1.4
10°-20°	302.2	4.1
20°-30°	448.3	6.1
30°-40°	524.5	7.1
40°-50°	522.2	7.1
50°-60°	450.9	6.1
60°-70°	324.6	4.4
70°-80°	170.2	2.3
80°-90°	44.0	0.6
90°-100°	325.1	4.4
100°-110°	894.5	12.1
110°-120°	923.3	12.5
120°-130°	739.7	10.0
130°-140°	581.0	7.9
140°-150°	445.2	6.0
150°-160°	320.1	4.3
160°-170°	195.7	2.7
170°-180°	66.0	0.9
0°-30°	857.5	11.6
0°-40°	1382.0	18.7
0°-60°	2355.1	31.9
0°-90°	2893.8	39.2
90°-120°	2142.9	29.0
90°-150°	3908.8	52.9
90°-180°	4491.0	60.8
0°-180°	7384.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1137	1137	1137	1137	1137	
5°	1140	1127	1131	1128	1126	108
15°	1085	1071	1073	1071	1069	306
25°	992	975	974	968	970	456
35°	852	840	840	832	835	533
45°	685	679	676	674	673	529
55°	508	507	508	501	500	453
65°	322	331	338	324	314	319
75°	148	162	170	159	144	159
85°	25	33	37	35	33	33
90°	2	6	10	13	13	4
95°	48	178	575	246	157	51
105°	160	246	986	1501	1401	169
115°	283	345	790	1574	1786	279
125°	390	445	717	1213	1421	348
135°	471	522	697	981	1110	363
145°	544	581	686	836	900	341
155°	616	636	682	751	773	283
165°	666	674	685	713	717	188
175°	689	691	686	695	694	65
180°	689	689	689	689	689	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1136.7	1136.7	1136.7	1136.7	1136.7
2.5°	1143.1	1133.7	1136.7	1134.2	1128.7
5°	1139.7	1127.0	1130.7	1127.6	1125.7
7.5°	1128.1	1116.3	1119.1	1115.8	1114.7
10°	1117.7	1105.9	1108.7	1104.6	1102.7
12.5°	1105.7	1093.1	1095.8	1091.8	1090.6
15°	1084.6	1070.9	1072.6	1070.6	1068.6
17.5°	1060.2	1046.3	1046.6	1043.4	1043.0
20°	1042.6	1027.9	1026.5	1022.6	1024.5
22.5°	1023.3	1007.9	1006.5	1001.0	1003.7
25°	991.5	974.8	973.5	967.5	970.5
27.5°	954.6	938.2	938.2	929.9	933.0
30°	927.4	911.7	913.4	903.4	907.4
32.5°	898.5	884.4	885.3	875.4	879.3
35°	852.3	840.5	840.3	832.3	835.3
37.5°	805.0	794.6	793.0	788.4	789.2
40°	772.2	763.3	760.1	757.1	757.1
42.5°	737.7	729.7	726.5	724.3	723.5
45°	685.0	679.2	676.0	674.0	673.0
47.5°	632.9	627.5	624.7	623.3	622.3
50°	596.9	593.0	591.9	588.9	587.9
52.5°	560.8	558.5	557.4	553.6	552.6
55°	507.8	506.8	507.8	500.7	499.7
57.5°	452.5	454.0	457.3	447.8	445.5
60°	415.6	419.5	423.6	412.5	408.6
62.5°	378.0	384.2	390.0	377.2	371.8
65°	321.5	331.3	337.5	324.2	313.5
67.5°	267.0	279.1	286.6	272.3	260.2
70°	229.3	243.1	251.4	237.0	223.3
72.5°	196.5	211.8	218.5	205.0	191.3
75°	148.2	161.9	170.3	158.9	144.2
77.5°	105.2	118.1	125.0	115.1	103.0
80°	77.1	90.8	96.1	87.9	78.1
82.5°	54.7	66.0	69.7	64.7	58.1
85°	25.0	32.9	37.1	35.0	33.0
87.5°	6.7	13.0	17.3	17.9	18.7
90°	1.5	5.8	10.3	13.2	13.2
92.5°	20.2	86.5	149.9	57.6	47.2
95°	48.4	177.5	574.9	245.8	156.9
97.5°	78.9	196.8	877.3	676.0	477.0
100°	101.2	208.8	972.4	981.5	800.8
102.5°	122.3	223.0	997.0	1217.7	1051.9
105°	159.9	245.9	985.6	1501.0	1400.6
107.5°	195.7	274.2	929.6	1639.8	1669.6
110°	221.5	293.2	887.3	1674.3	1777.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	244.9	314.3	845.1	1652.1	1809.3
115°	283.1	344.7	790.5	1574.1	1786.4
117.5°	319.4	376.2	755.9	1464.8	1704.8
120°	341.7	396.2	740.7	1382.8	1630.9
122.5°	361.7	416.2	730.1	1311.0	1546.4
125°	390.1	444.6	717.2	1213.2	1421.2
127.5°	417.1	469.0	708.7	1131.7	1314.1
130°	431.2	484.3	704.0	1083.2	1249.6
132.5°	447.6	500.7	700.5	1040.6	1190.9
135°	470.8	522.4	696.7	981.2	1110.3
137.5°	492.5	540.4	693.4	933.2	1039.6
140°	508.9	553.4	692.3	901.2	997.3
142.5°	523.0	564.0	689.9	872.8	955.1
145°	544.1	581.4	686.4	836.0	900.5
147.5°	566.7	598.8	684.6	803.4	855.1
150°	580.8	609.5	683.5	785.6	825.7
152.5°	593.7	620.1	682.3	770.2	803.4
155°	616.0	636.1	682.0	751.4	772.9
157.5°	632.1	648.5	682.0	736.0	750.9
160°	643.9	656.8	682.0	727.7	739.2
162.5°	653.2	663.9	683.2	720.6	729.8
165°	665.9	674.5	684.9	712.9	717.2
167.5°	674.7	681.3	686.4	706.4	707.5
170°	680.5	684.8	686.4	704.0	704.0
172.5°	685.2	687.2	686.4	700.4	699.3
175°	689.3	690.8	686.4	695.2	693.7
177.5°	690.5	690.5	685.8	692.8	690.5
180°	689.3	689.3	689.3	689.3	689.3

(END OF REPORT)