

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: P562366

Luminaire Tested: **SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562366
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-PW1-100U-075D-92765-1D-UNV-STD-W-4 (4500K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

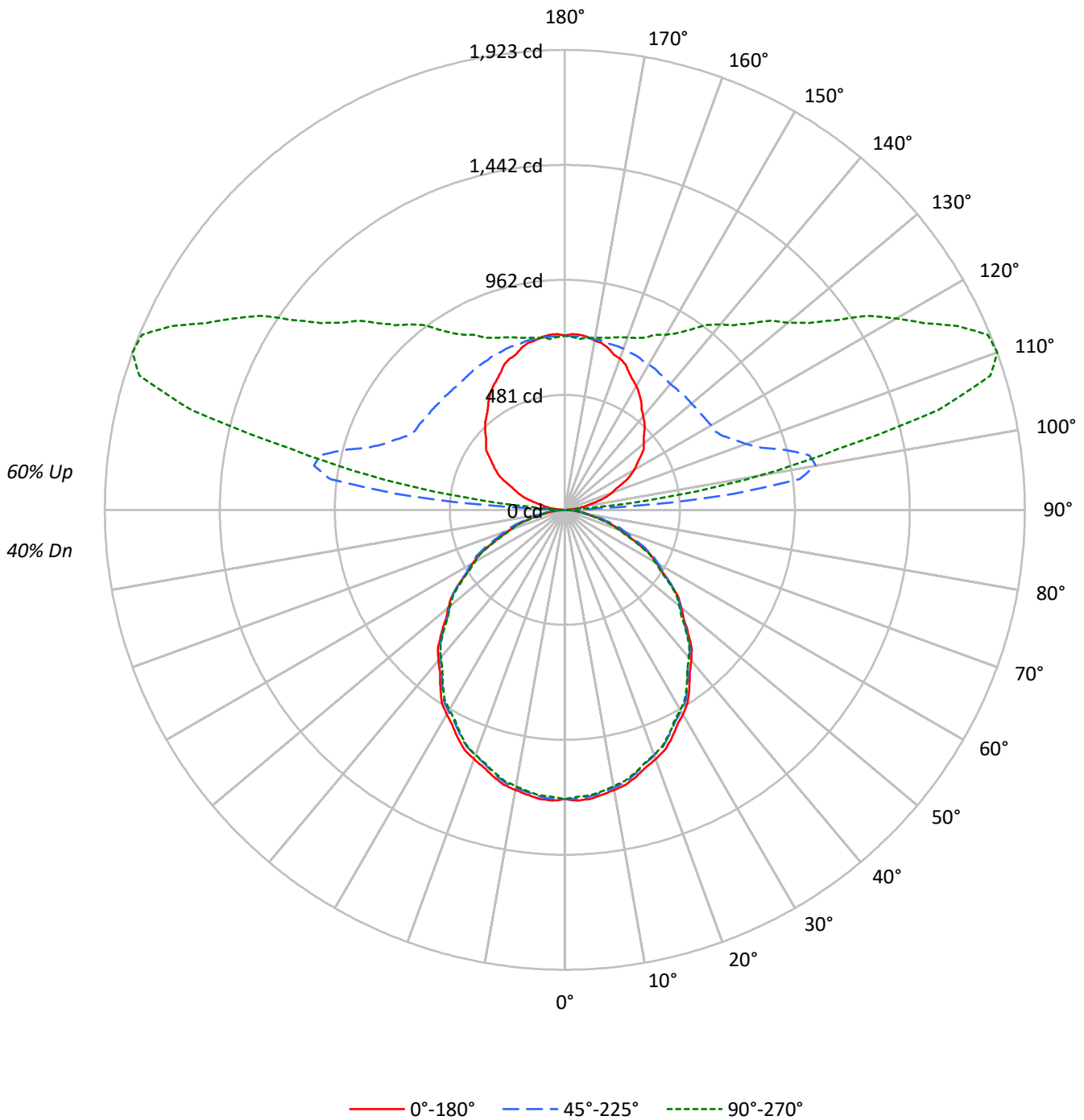
Lumens per Lamp: N/A
Luminaire Lumens: 7602.8 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 64.3
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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	40				
1	96	92	88	84	87	84	80	77	69	66	64	55	53	52	42	41	40	34				
2	87	80	74	69	79	73	68	64	60	56	53	48	46	43	37	35	34	29				
3	80	70	63	57	72	64	58	53	53	48	45	43	39	37	33	31	29	24				
4	73	62	54	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21				
5	67	55	47	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18				
6	61	50	42	36	56	46	39	33	38	33	29	31	27	24	24	21	19	16				
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	14				
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13				
9	49	37	30	25	45	34	28	23	29	23	20	23	20	17	19	16	14	11				
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	14	12	10				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11163	11163	11163
5°	11235	11147	11097
10°	11146	11056	10996
15°	11027	10905	10865
20°	10895	10728	10708
25°	10744	10549	10516
30°	10516	10357	10289
35°	10218	10074	10014
40°	9899	9745	9706
45°	9514	9389	9347
50°	9120	9043	8982
55°	8694	8694	8557
60°	8163	8320	8025
65°	7471	7844	7285
70°	6585	7219	6412
75°	5625	6459	5472
80°	4362	5435	4421
85°	2826	4171	3726



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	1.5
10°-20°	321.7	4.2
20°-30°	477.2	6.3
30°-40°	558.3	7.3
40°-50°	555.8	7.3
50°-60°	480.0	6.3
60°-70°	345.5	4.5
70°-80°	181.2	2.4
80°-90°	44.9	0.6
90°-100°	331.9	4.4
100°-110°	944.4	12.4
110°-120°	904.8	11.9
120°-130°	716.1	9.4
130°-140°	574.8	7.6
140°-150°	450.0	5.9
150°-160°	329.3	4.3
160°-170°	203.9	2.7
170°-180°	69.2	0.9
0°-30°	912.8	12.0
0°-40°	1471.1	19.3
0°-60°	2506.9	33.0
0°-90°	3078.4	40.5
90°-120°	2181.1	28.7
90°-150°	3921.9	51.6
90°-180°	4524.0	59.5
0°-180°	7602.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1210	1210	1210	1210	1210	
5°	1213	1200	1204	1200	1198	115
15°	1154	1140	1142	1140	1138	325
25°	1055	1038	1036	1030	1033	485
35°	907	895	894	886	889	567
45°	729	723	720	717	716	563
55°	540	539	540	533	532	482
65°	342	353	359	345	334	339
75°	158	172	181	169	154	169
85°	27	35	39	37	35	35
90°	0	0	0	0	0	2
95°	36	143	642	222	137	41
105°	147	223	962	1700	1616	155
115°	273	330	730	1546	1815	269
125°	385	427	696	1156	1382	345
135°	471	510	688	976	1104	363
145°	555	584	694	845	921	347
155°	634	649	710	764	795	293
165°	701	703	719	734	745	197
175°	734	730	727	723	717	70
180°	728	728	728	728	728	

TEST NUMBER: P562366

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1209.9	1209.9	1209.9	1209.9	1209.9
2.5°	1216.8	1206.8	1209.9	1207.3	1201.4
5°	1213.1	1199.6	1203.6	1200.3	1198.2
7.5°	1200.8	1188.3	1191.2	1187.7	1186.5
10°	1189.7	1177.2	1180.1	1175.8	1173.7
12.5°	1176.9	1163.6	1166.5	1162.2	1160.9
15°	1154.5	1139.9	1141.7	1139.5	1137.5
17.5°	1128.5	1113.7	1114.0	1110.6	1110.2
20°	1109.7	1094.1	1092.7	1088.5	1090.6
22.5°	1089.3	1072.8	1071.4	1065.5	1068.4
25°	1055.4	1037.7	1036.2	1029.9	1033.0
27.5°	1016.1	998.6	998.7	989.8	993.1
30°	987.1	970.5	972.2	961.7	965.8
32.5°	956.4	941.4	942.4	931.8	936.0
35°	907.2	894.7	894.4	885.9	889.1
37.5°	856.9	845.8	844.1	839.2	840.0
40°	821.9	812.5	809.1	805.9	805.9
42.5°	785.2	776.7	773.3	770.9	770.1
45°	729.2	722.9	719.6	717.4	716.4
47.5°	673.7	667.9	665.0	663.5	662.4
50°	635.4	631.2	630.0	626.8	625.8
52.5°	597.0	594.5	593.4	589.3	588.2
55°	540.5	539.4	540.5	533.0	532.0
57.5°	481.6	483.3	486.8	476.7	474.2
60°	442.4	446.6	450.9	439.1	434.9
62.5°	402.3	409.0	415.1	401.5	395.7
65°	342.2	352.6	359.3	345.1	333.7
67.5°	284.2	297.1	305.1	289.9	277.0
70°	244.1	258.7	267.6	252.3	237.7
72.5°	209.2	225.4	232.6	218.2	203.6
75°	157.8	172.4	181.2	169.1	153.5
77.5°	111.9	125.7	133.0	122.5	109.6
80°	82.1	96.7	102.3	93.6	83.2
82.5°	58.2	70.3	74.2	68.9	61.8
85°	26.7	35.0	39.4	37.3	35.2
87.5°	6.8	12.7	16.2	16.2	17.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.1	58.7	136.3	39.7	29.9
95°	36.0	143.0	642.5	222.4	137.1
97.5°	66.2	167.5	989.5	708.1	485.2
100°	87.2	182.0	1064.8	1078.6	830.8
102.5°	110.5	197.7	1048.2	1380.6	1164.3
105°	146.8	222.6	962.4	1699.9	1616.0
107.5°	183.6	251.6	862.1	1789.9	1864.7
110°	209.1	272.7	804.5	1755.5	1923.4

TEST NUMBER: P562366

CATALOG NUMBER: SQ4-PW1-100U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	233.5	293.8	765.7	1674.0	1913.4
115°	272.8	329.7	729.7	1545.9	1815.4
117.5°	307.4	360.8	708.4	1405.9	1691.3
120°	335.1	379.8	706.2	1325.8	1599.3
122.5°	357.3	401.9	700.7	1255.6	1509.6
125°	385.0	426.9	696.5	1155.8	1381.9
127.5°	415.1	454.4	694.3	1096.2	1282.5
130°	430.6	469.9	691.0	1054.7	1217.2
132.5°	447.3	485.4	691.0	1022.3	1171.7
135°	470.8	510.1	688.2	976.3	1103.6
137.5°	493.0	531.1	687.9	937.5	1047.4
140°	509.6	548.8	686.8	905.2	1010.8
142.5°	528.4	561.2	690.1	879.5	974.3
145°	555.3	583.7	693.7	845.0	920.8
147.5°	578.3	605.9	699.8	810.2	875.7
150°	598.2	617.2	702.0	798.6	844.7
152.5°	613.7	633.7	704.3	783.1	825.8
155°	634.2	649.1	710.4	763.7	794.8
157.5°	659.7	668.6	711.7	754.9	777.1
160°	673.0	679.7	717.3	748.2	767.1
162.5°	680.7	688.6	718.4	742.5	757.2
165°	700.7	703.4	718.7	734.1	745.0
167.5°	714.2	711.8	725.0	732.1	736.4
170°	718.7	717.3	722.8	724.3	729.7
172.5°	728.6	724.0	726.1	722.1	726.4
175°	733.9	729.8	727.0	722.7	717.3
177.5°	736.1	729.6	726.1	721.7	722.8
180°	728.4	728.4	728.4	728.4	728.4

(END OF REPORT)