

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: P562210

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (4500K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562210
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-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 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

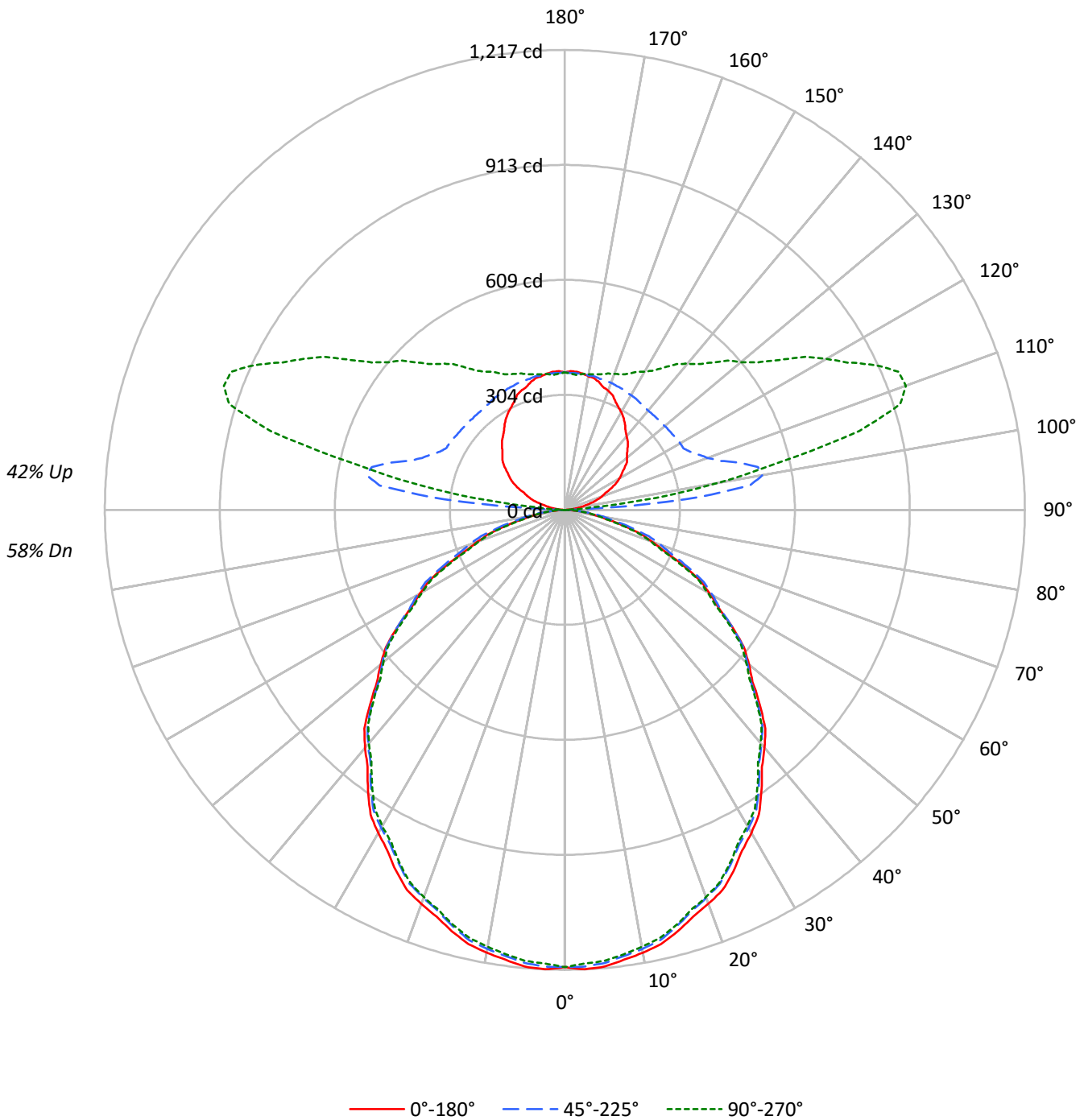
Lumens per Lamp: N/A
Luminaire Lumens: 5337.0 lumens
Efficiency: N/A
Efficacy: 111.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.7
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



TEST NUMBER: P562210
CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

Luminous Intensity Polar Plot





TEST NUMBER: P562210

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

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	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49
2	91	83	77	72	84	78	72	68	68	64	60	58	55	52	49	47	45	41
3	83	73	66	60	77	69	62	57	60	55	51	52	48	44	44	41	39	35
4	76	65	57	51	70	61	54	48	53	48	43	46	42	38	39	36	33	30
5	70	58	50	44	65	54	47	42	48	42	37	41	37	33	35	32	29	26
6	64	52	44	38	60	49	42	36	43	37	33	37	33	29	32	28	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	29	26	23	20
8	55	43	35	30	51	40	33	28	36	30	26	31	26	23	27	23	20	18
9	51	39	32	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	29	24	45	34	27	23	30	25	21	26	22	19	23	19	17	15

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



TEST NUMBER: P562210

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.9	2.1
10°-20°	321.7	6.0
20°-30°	477.2	8.9
30°-40°	558.3	10.5
40°-50°	555.8	10.4
50°-60°	480.0	9.0
60°-70°	345.5	6.5
70°-80°	181.2	3.4
80°-90°	44.9	0.8
90°-100°	165.7	3.1
100°-110°	471.4	8.8
110°-120°	451.7	8.5
120°-130°	357.5	6.7
130°-140°	286.9	5.4
140°-150°	224.6	4.2
150°-160°	164.4	3.1
160°-170°	101.8	1.9
170°-180°	34.5	0.6
0°-30°	912.8	17.1
0°-40°	1471.1	27.6
0°-60°	2506.9	47.0
0°-90°	3078.4	57.7
90°-120°	1088.8	20.4
90°-150°	1957.8	36.7
90°-180°	2259.0	42.3
0°-180°	5337.0	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°	18	71	321	111	68	21
105°	73	111	480	849	807	78
115°	136	165	364	772	906	134
125°	192	213	348	577	690	172
135°	235	255	344	487	551	181
145°	277	291	346	422	460	173
155°	317	324	355	381	397	146
165°	350	351	359	366	372	98
175°	366	364	363	361	358	35
180°	364	364	364	364	364	

TEST NUMBER: P562210

CATALOG NUMBER: SQ4-PW1-050U-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°	5.5	29.3	68.0	19.8	14.9
95°	18.0	71.4	320.7	111.0	68.4
97.5°	33.0	83.6	494.0	353.5	242.2
100°	43.5	90.9	531.6	538.4	414.7
102.5°	55.2	98.7	523.3	689.2	581.2
105°	73.3	111.1	480.4	848.6	806.7
107.5°	91.7	125.6	430.4	893.5	930.8
110°	104.4	136.1	401.6	876.3	960.1

TEST NUMBER: P562210

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (4500K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	116.5	146.7	382.3	835.7	955.2
115°	136.2	164.6	364.3	771.7	906.2
117.5°	153.5	180.1	353.6	701.8	844.3
120°	167.3	189.6	352.5	661.9	798.4
122.5°	178.3	200.6	349.8	626.8	753.6
125°	192.2	213.1	347.7	577.0	689.9
127.5°	207.2	226.8	346.6	547.2	640.2
130°	215.0	234.6	344.9	526.5	607.6
132.5°	223.3	242.3	344.9	510.3	584.9
135°	235.0	254.6	343.5	487.4	550.9
137.5°	246.1	265.1	343.4	468.0	522.9
140°	254.4	274.0	342.9	451.9	504.6
142.5°	263.8	280.1	344.5	439.0	486.4
145°	277.2	291.4	346.3	421.8	459.7
147.5°	288.7	302.4	349.4	404.4	437.1
150°	298.6	308.1	350.5	398.7	421.7
152.5°	306.4	316.4	351.6	390.9	412.3
155°	316.6	324.0	354.6	381.2	396.8
157.5°	329.3	333.8	355.3	376.8	387.9
160°	335.9	339.3	358.1	373.5	382.9
162.5°	339.8	343.7	358.6	370.7	378.0
165°	349.8	351.1	358.8	366.5	371.9
167.5°	356.5	355.3	361.9	365.4	367.6
170°	358.8	358.1	360.8	361.6	364.3
172.5°	363.7	361.4	362.5	360.5	362.6
175°	366.4	364.3	362.9	360.8	358.1
177.5°	367.5	364.2	362.5	360.3	360.8
180°	363.6	363.6	363.6	363.6	363.6

(END OF REPORT)