

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: P562212

Luminaire Tested: **SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562212
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

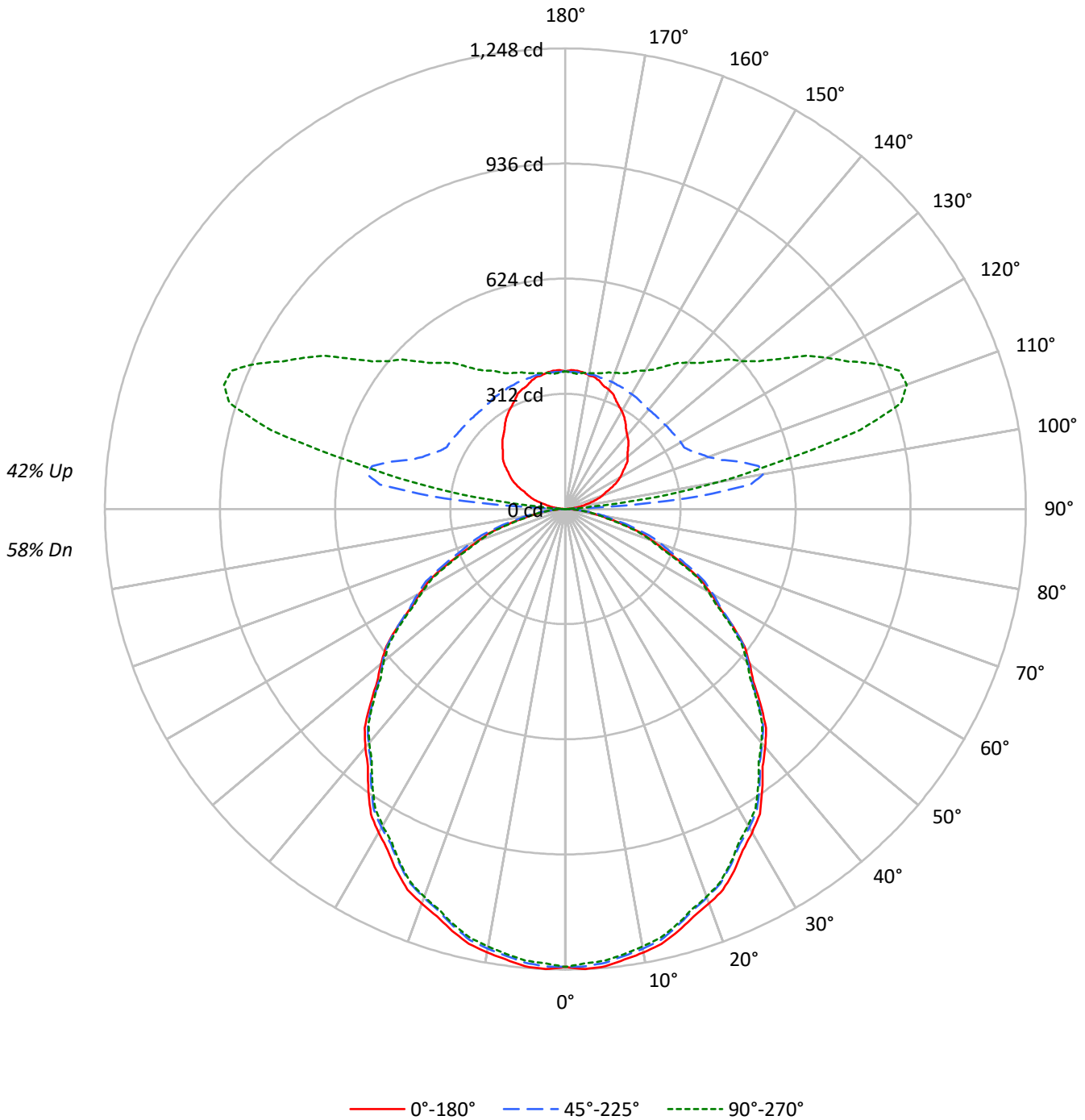
Lumens per Lamp: N/A
Luminaire Lumens: 5472.9 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 47.6
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	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°	11448	11448	11448
5°	11521	11430	11380
10°	11430	11338	11276
15°	11308	11183	11141
20°	11173	11001	10980
25°	11018	10817	10784
30°	10785	10622	10551
35°	10478	10331	10269
40°	10151	9993	9953
45°	9756	9628	9585
50°	9351	9274	9211
55°	8915	8915	8775
60°	8372	8532	8230
65°	7661	8043	7471
70°	6752	7402	6577
75°	5768	6623	5611
80°	4474	5574	4532
85°	2890	4277	3822



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.8	2.1
10°-20°	329.9	6.0
20°-30°	489.3	8.9
30°-40°	572.5	10.5
40°-50°	570.0	10.4
50°-60°	492.2	9.0
60°-70°	354.3	6.5
70°-80°	185.8	3.4
80°-90°	46.1	0.8
90°-100°	169.9	3.1
100°-110°	483.4	8.8
110°-120°	463.2	8.5
120°-130°	366.6	6.7
130°-140°	294.2	5.4
140°-150°	230.4	4.2
150°-160°	168.5	3.1
160°-170°	104.4	1.9
170°-180°	35.4	0.6
0°-30°	936.0	17.1
0°-40°	1508.5	27.6
0°-60°	2570.7	47.0
0°-90°	3156.8	57.7
90°-120°	1116.5	20.4
90°-150°	2007.7	36.7
90°-180°	2316.0	42.3
0°-180°	5472.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1241	1241	1241	1241	1241	
5°	1244	1230	1234	1231	1229	118
15°	1184	1169	1171	1169	1166	334
25°	1082	1064	1063	1056	1059	498
35°	930	918	917	908	912	582
45°	748	741	738	736	735	577
55°	554	553	554	547	546	495
65°	351	362	368	354	342	348
75°	162	177	186	174	157	173
85°	27	36	40	38	36	36
90°	0	0	0	0	0	2
95°	18	73	329	114	70	21
105°	75	114	493	870	827	79
115°	140	169	374	791	929	137
125°	197	218	356	592	707	176
135°	241	261	352	500	565	186
145°	284	299	355	433	471	178
155°	325	332	364	391	407	150
165°	359	360	368	376	381	101
175°	376	374	372	370	367	36
180°	373	373	373	373	373	



TEST NUMBER: P562212

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1240.8	1240.8	1240.8	1240.8	1240.8
2.5°	1247.8	1237.5	1240.8	1238.0	1232.0
5°	1244.0	1230.1	1234.2	1230.9	1228.7
7.5°	1231.4	1218.5	1221.5	1218.0	1216.7
10°	1220.0	1207.2	1210.2	1205.7	1203.6
12.5°	1206.9	1193.2	1196.2	1191.8	1190.5
15°	1183.9	1169.0	1170.8	1168.6	1166.4
17.5°	1157.2	1142.1	1142.4	1138.9	1138.4
20°	1138.0	1122.0	1120.5	1116.2	1118.3
22.5°	1117.0	1100.1	1098.6	1092.6	1095.6
25°	1082.3	1064.1	1062.6	1056.1	1059.3
27.5°	1042.0	1024.1	1024.1	1015.0	1018.4
30°	1012.3	995.2	997.0	986.1	990.4
32.5°	980.8	965.4	966.4	955.5	959.8
35°	930.3	917.5	917.2	908.5	911.7
37.5°	878.7	867.4	865.6	860.6	861.4
40°	842.8	833.2	829.7	826.4	826.4
42.5°	805.2	796.5	793.0	790.6	789.7
45°	747.7	741.3	737.9	735.7	734.6
47.5°	690.9	684.9	681.9	680.4	679.3
50°	651.5	647.3	646.1	642.8	641.7
52.5°	612.2	609.6	608.5	604.3	603.2
55°	554.2	553.2	554.2	546.6	545.5
57.5°	493.9	495.6	499.1	488.8	486.2
60°	453.7	457.9	462.4	450.3	446.0
62.5°	412.6	419.4	425.7	411.8	405.8
65°	350.9	361.6	368.4	353.9	342.2
67.5°	291.4	304.7	312.9	297.3	284.0
70°	250.3	265.3	274.4	258.7	243.8
72.5°	214.5	231.2	238.5	223.8	208.8
75°	161.8	176.8	185.8	173.5	157.4
77.5°	114.8	128.9	136.4	125.6	112.4
80°	84.2	99.1	104.9	96.0	85.3
82.5°	59.7	72.1	76.1	70.7	63.4
85°	27.3	35.9	40.4	38.2	36.1
87.5°	7.0	13.0	16.6	16.6	17.5
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.7	30.1	69.8	20.3	15.3
95°	18.4	73.2	328.9	113.8	70.2
97.5°	33.9	85.7	506.5	362.5	248.4
100°	44.7	93.2	545.1	552.1	425.3
102.5°	56.6	101.2	536.6	706.7	596.0
105°	75.1	114.0	492.6	870.2	827.2
107.5°	94.0	128.8	441.3	916.3	954.5
110°	107.0	139.6	411.8	898.6	984.6

TEST NUMBER: P562212

CATALOG NUMBER: SQ4-PW1-050U-075D-92765-1D-UNV-STD-W-4 (5700K)

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	119.5	150.4	392.0	856.9	979.5
115°	139.6	168.8	373.6	791.4	929.3
117.5°	157.4	184.7	362.6	719.7	865.8
120°	171.5	194.4	361.5	678.7	818.7
122.5°	182.9	205.8	358.7	642.8	772.8
125°	197.1	218.5	356.5	591.7	707.4
127.5°	212.5	232.6	355.4	561.2	656.5
130°	220.4	240.5	353.7	539.9	623.1
132.5°	229.0	248.5	353.7	523.3	599.8
135°	241.0	261.1	352.3	499.8	564.9
137.5°	252.3	271.9	352.2	479.9	536.2
140°	260.9	281.0	351.6	463.4	517.5
142.5°	270.5	287.3	353.3	450.2	498.7
145°	284.2	298.8	355.1	432.6	471.4
147.5°	296.0	310.2	358.2	414.7	448.3
150°	306.2	315.9	359.4	408.8	432.4
152.5°	314.2	324.4	360.5	400.9	422.8
155°	324.6	332.3	363.6	390.9	406.9
157.5°	337.7	342.3	364.3	386.4	397.8
160°	344.5	348.0	367.2	383.0	392.7
162.5°	348.5	352.5	367.7	380.1	387.6
165°	358.7	360.1	367.9	375.8	381.4
167.5°	365.6	364.4	371.1	374.7	377.0
170°	367.9	367.2	370.0	370.8	373.6
172.5°	373.0	370.6	371.7	369.6	371.9
175°	375.7	373.6	372.1	370.0	367.2
177.5°	376.8	373.5	371.7	369.5	370.0
180°	372.9	372.9	372.9	372.9	372.9

(END OF REPORT)