

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: P562258

Luminaire Tested: **SQ4-PW1-075U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562258
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-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

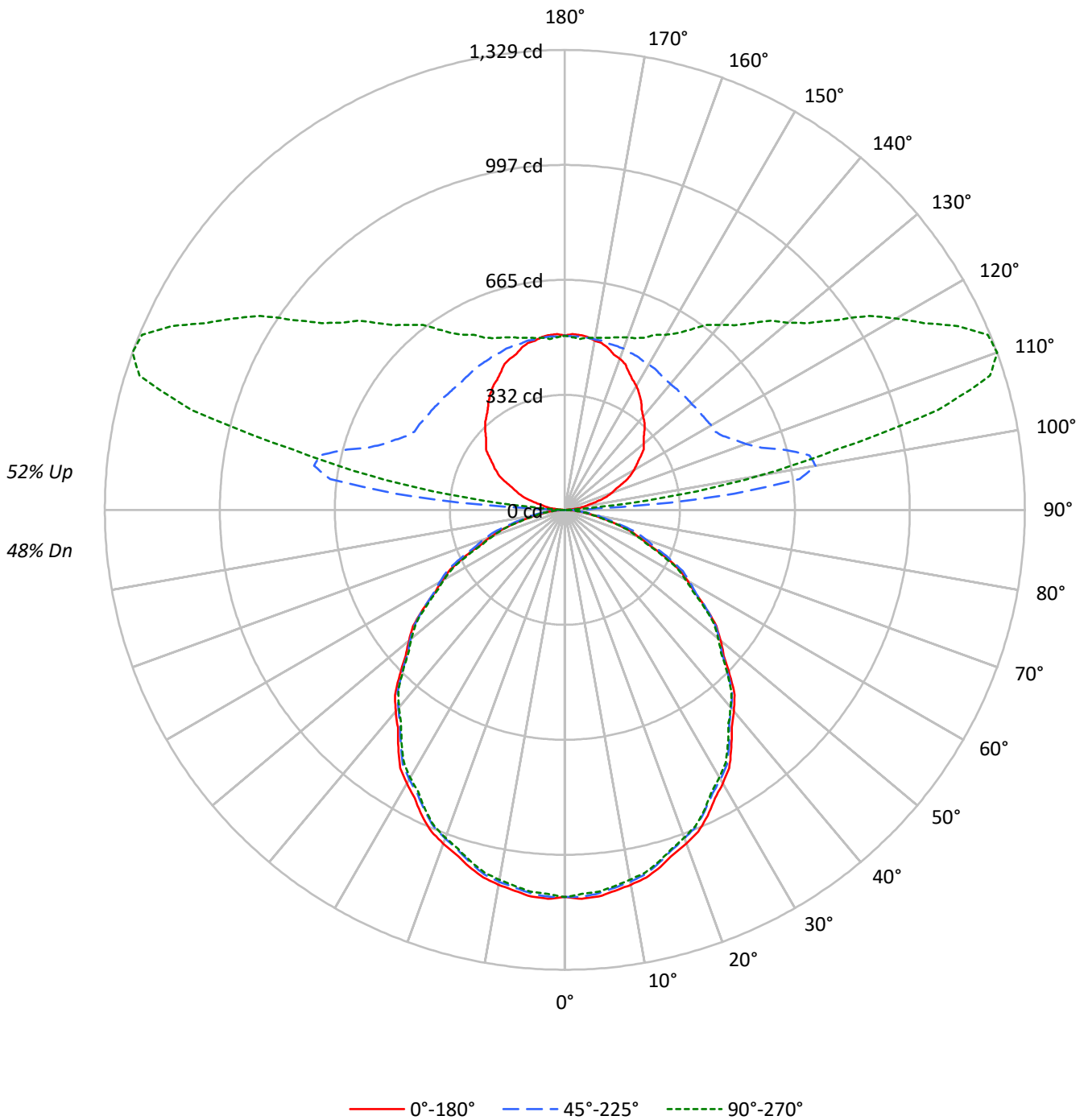
Lumens per Lamp: N/A
Luminaire Lumens: 5972.4 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 55.4
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	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48				48
1	97	93	89	86	89	86	83	80	72	70	68	59	58	56	48	47	46				40	
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39				34	
3	81	72	64	59	74	66	60	55	56	51	47	46	43	40	37	35	33				29	
4	74	63	56	50	68	59	52	46	50	44	40	41	37	34	33	31	28				25	
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25				22	
6	63	51	43	37	57	47	40	35	40	34	30	33	29	26	27	24	22				19	
7	58	46	38	32	53	42	35	30	36	31	27	30	26	23	25	22	19				17	
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	17				15	
9	50	38	30	25	46	35	29	24	30	25	21	26	21	18	21	18	16				14	
10	47	35	28	23	43	32	26	21	28	23	19	24	20	17	20	17	14				12	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10322	10322	10322
5°	10389	10306	10261
10°	10305	10223	10167
15°	10196	10084	10045
20°	10075	9919	9901
25°	9934	9753	9723
30°	9725	9577	9514
35°	9447	9315	9259
40°	9153	9010	8975
45°	8797	8681	8643
50°	8433	8361	8305
55°	8038	8038	7912
60°	7549	7693	7422
65°	6907	7252	6735
70°	6088	6674	5929
75°	5201	5974	5058
80°	4033	5026	4086
85°	2604	3864	3440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.3	1.8
10°-20°	297.4	5.0
20°-30°	441.2	7.4
30°-40°	516.2	8.6
40°-50°	513.9	8.6
50°-60°	443.8	7.4
60°-70°	319.4	5.3
70°-80°	167.5	2.8
80°-90°	41.5	0.7
90°-100°	229.3	3.8
100°-110°	652.5	10.9
110°-120°	625.2	10.5
120°-130°	494.8	8.3
130°-140°	397.1	6.6
140°-150°	310.9	5.2
150°-160°	227.5	3.8
160°-170°	140.9	2.4
170°-180°	47.8	0.8
0°-30°	844.0	14.1
0°-40°	1360.2	22.8
0°-60°	2317.9	38.8
0°-90°	2846.4	47.7
90°-120°	1507.0	25.2
90°-150°	2709.8	45.4
90°-180°	3126.0	52.3
0°-180°	5972.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1119	1119	1119	1119	1119	
5°	1122	1109	1113	1110	1108	106
15°	1068	1054	1056	1054	1052	301
25°	976	960	958	952	955	449
35°	839	827	827	819	822	524
45°	674	668	665	663	662	520
55°	500	499	500	493	492	446
65°	316	326	332	319	308	314
75°	146	159	168	156	142	156
85°	25	32	36	34	32	32
90°	0	0	0	0	0	2
95°	25	99	444	154	95	28
105°	101	154	665	1174	1116	107
115°	188	228	504	1068	1254	186
125°	266	295	481	799	955	238
135°	325	352	476	675	762	251
145°	384	403	479	584	636	240
155°	438	448	491	528	549	203
165°	484	486	496	507	515	136
175°	507	504	502	499	496	48
180°	503	503	503	503	503	

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CATALOG NUMBER: SQ4-PW1-075U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1125.1	1115.8	1118.8	1116.3	1110.9
5°	1121.7	1109.2	1112.8	1109.8	1107.9
7.5°	1110.3	1098.7	1101.4	1098.2	1097.1
10°	1100.0	1088.5	1091.2	1087.2	1085.2
12.5°	1088.2	1075.9	1078.5	1074.6	1073.4
15°	1067.5	1054.0	1055.7	1053.7	1051.7
17.5°	1043.5	1029.8	1030.0	1026.9	1026.5
20°	1026.1	1011.6	1010.3	1006.4	1008.4
22.5°	1007.2	992.0	990.6	985.2	987.9
25°	975.8	959.5	958.1	952.2	955.1
27.5°	939.6	923.4	923.4	915.2	918.3
30°	912.8	897.3	899.0	889.2	893.0
32.5°	884.4	870.5	871.4	861.6	865.4
35°	838.8	827.3	827.0	819.2	822.1
37.5°	792.3	782.1	780.5	776.0	776.7
40°	760.0	751.3	748.1	745.2	745.2
42.5°	726.1	718.2	715.0	712.8	712.1
45°	674.2	668.4	665.3	663.3	662.4
47.5°	623.0	617.6	614.9	613.5	612.5
50°	587.5	583.6	582.5	579.6	578.6
52.5°	552.0	549.7	548.6	544.9	543.9
55°	499.7	498.8	499.7	492.8	491.9
57.5°	445.3	446.9	450.1	440.7	438.4
60°	409.1	412.9	416.9	406.0	402.2
62.5°	372.0	378.2	383.8	371.3	365.9
65°	316.4	326.0	332.2	319.1	308.5
67.5°	262.8	274.7	282.1	268.0	256.1
70°	225.7	239.2	247.4	233.3	219.8
72.5°	193.4	208.4	215.1	201.8	188.3
75°	145.9	159.4	167.6	156.4	141.9
77.5°	103.5	116.2	123.0	113.3	101.3
80°	75.9	89.4	94.6	86.5	76.9
82.5°	53.8	65.0	68.6	63.7	57.2
85°	24.6	32.4	36.5	34.5	32.5
87.5°	6.3	11.7	15.0	15.0	15.8
90°	0.0	0.0	0.0	0.0	0.0
92.5°	7.7	40.6	94.1	27.4	20.7
95°	24.9	98.8	443.9	153.7	94.7
97.5°	45.7	115.7	683.7	489.2	335.2
100°	60.3	125.8	735.7	745.2	574.0
102.5°	76.3	136.6	724.3	953.9	804.4
105°	101.4	153.8	664.9	1174.5	1116.5
107.5°	126.9	173.8	595.7	1236.7	1288.3
110°	144.5	188.4	555.9	1212.9	1328.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	161.3	203.0	529.1	1156.6	1322.0
115°	188.5	227.8	504.2	1068.1	1254.3
117.5°	212.4	249.3	489.5	971.4	1168.6
120°	231.5	262.4	487.9	916.1	1105.0
122.5°	246.8	277.7	484.1	867.5	1043.0
125°	266.0	295.0	481.2	798.6	954.8
127.5°	286.8	314.0	479.7	757.4	886.1
130°	297.5	324.7	477.4	728.7	841.0
132.5°	309.0	335.4	477.4	706.3	809.6
135°	325.3	352.4	475.5	674.6	762.5
137.5°	340.6	367.0	475.3	647.7	723.7
140°	352.1	379.2	474.5	625.5	698.4
142.5°	365.1	387.7	476.8	607.7	673.2
145°	383.7	403.3	479.3	583.8	636.2
147.5°	399.5	418.6	483.5	559.8	605.0
150°	413.3	426.4	485.1	551.8	583.6
152.5°	424.0	437.9	486.6	541.0	570.6
155°	438.2	448.5	490.8	527.7	549.2
157.5°	455.8	462.0	491.8	521.6	536.9
160°	465.0	469.7	495.6	516.9	530.0
162.5°	470.3	475.8	496.4	513.0	523.1
165°	484.1	486.0	496.5	507.2	514.7
167.5°	493.5	491.8	500.9	505.8	508.8
170°	496.5	495.6	499.4	500.5	504.2
172.5°	503.4	500.3	501.7	498.9	501.9
175°	507.1	504.3	502.3	499.3	495.6
177.5°	508.6	504.1	501.7	498.7	499.4
180°	503.2	503.2	503.2	503.2	503.2

(END OF REPORT)