

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: P564646

Luminaire Tested: **SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564646
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

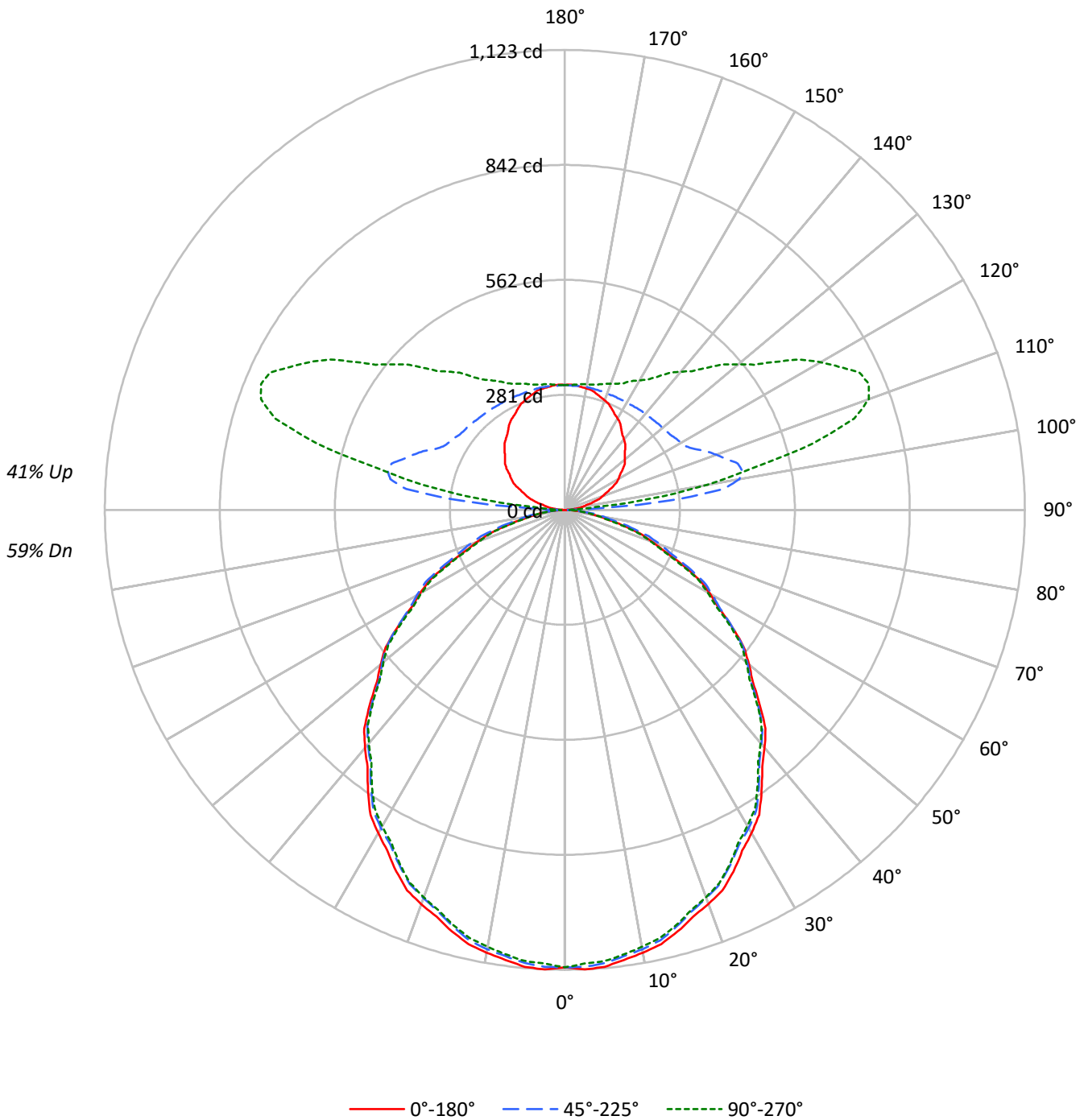
Lumens per Lamp: N/A
Luminaire Lumens: 4834.8 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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



TEST NUMBER: P564646
CATALOG NUMBER: SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P564646

CATALOG NUMBER: SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59																			
1	100	96	92	88	93	89	86	83	78	75	73	67	65	63	57	56	55	50																			
2	91	84	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42																			
3	83	74	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36																			
4	76	65	57	51	71	61	54	48	54	48	43	46	42	39	40	37	34	31																			
5	70	58	50	44	65	55	47	42	48	42	38	42	37	34	36	32	30	27																			
6	64	52	44	38	60	49	42	36	43	37	33	38	33	29	33	29	26	23																			
7	60	47	39	33	55	44	37	32	39	33	29	34	30	26	30	26	23	21																			
8	55	43	35	30	52	40	33	28	36	30	26	31	27	23	27	24	21	19																			
9	52	39	32	26	48	37	30	25	33	27	23	29	24	21	25	22	19	17																			
10	48	36	29	24	45	34	27	23	30	25	21	27	22	19	23	20	17	15																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10305	10305	10305
5°	10372	10289	10244
10°	10289	10206	10151
15°	10179	10067	10029
20°	10058	9904	9884
25°	9917	9737	9708
30°	9707	9562	9499
35°	9432	9299	9244
40°	9138	8996	8961
45°	8782	8666	8629
50°	8418	8348	8291
55°	8025	8025	7898
60°	7536	7682	7409
65°	6896	7239	6724
70°	6080	6663	5918
75°	5190	5964	5051
80°	4027	5021	4081
85°	2604	3853	3440



TEST NUMBER: P564646

CATALOG NUMBER: SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.2	2.2
10°-20°	296.9	6.1
20°-30°	440.5	9.1
30°-40°	515.4	10.7
40°-50°	513.1	10.6
50°-60°	443.1	9.2
60°-70°	318.9	6.6
70°-80°	167.2	3.5
80°-90°	42.6	0.9
90°-100°	146.4	3.0
100°-110°	397.8	8.2
110°-120°	409.0	8.5
120°-130°	327.0	6.8
130°-140°	257.0	5.3
140°-150°	197.0	4.1
150°-160°	141.7	2.9
160°-170°	86.7	1.8
170°-180°	29.2	0.6
0°-30°	842.6	17.4
0°-40°	1357.9	28.1
0°-60°	2314.1	47.9
0°-90°	2842.9	58.8
90°-120°	953.3	19.7
90°-150°	1734.4	35.9
90°-180°	1992.0	41.2
0°-180°	4834.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1117	1117	1117	1117	1117	
5°	1120	1107	1111	1108	1106	106
15°	1066	1052	1054	1052	1050	300
25°	974	958	956	951	954	448
35°	837	826	826	818	821	524
45°	673	667	664	662	661	519
55°	499	498	499	492	491	445
65°	316	326	332	319	308	313
75°	146	159	167	156	142	156
85°	25	32	36	34	32	32
90°	1	4	7	9	9	2
95°	22	80	255	111	75	23
105°	71	110	438	666	627	75
115°	126	152	350	697	794	124
125°	173	197	317	534	630	154
135°	208	231	308	435	490	161
145°	240	258	304	370	397	151
155°	272	281	302	332	341	125
165°	294	298	303	316	317	83
175°	305	306	304	308	307	29
180°	305	305	305	305	305	

TEST NUMBER: P564646

CATALOG NUMBER: SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1116.9	1116.9	1116.9	1116.9	1116.9
2.5°	1123.2	1114.0	1116.9	1114.4	1109.0
5°	1119.9	1107.4	1111.0	1108.0	1106.1
7.5°	1108.4	1096.9	1099.6	1096.4	1095.3
10°	1098.2	1086.7	1089.4	1085.4	1083.5
12.5°	1086.4	1074.1	1076.8	1072.8	1071.6
15°	1065.7	1052.3	1053.9	1051.9	1050.0
17.5°	1041.7	1028.1	1028.3	1025.2	1024.8
20°	1024.4	1010.0	1008.7	1004.8	1006.7
22.5°	1005.5	990.3	989.0	983.5	986.2
25°	974.2	957.9	956.5	950.7	953.6
27.5°	938.0	921.8	921.9	913.7	916.8
30°	911.2	895.8	897.5	887.7	891.6
32.5°	882.9	869.0	869.9	860.2	864.0
35°	837.4	825.9	825.6	817.8	820.7
37.5°	791.0	780.8	779.2	774.7	775.4
40°	758.7	750.1	746.9	744.0	744.0
42.5°	724.9	717.0	713.8	711.7	710.9
45°	673.1	667.3	664.2	662.3	661.3
47.5°	621.9	616.5	613.9	612.5	611.5
50°	586.5	582.7	581.6	578.6	577.6
52.5°	551.1	548.8	547.7	544.0	543.0
55°	498.9	498.0	498.9	492.0	491.0
57.5°	444.6	446.1	449.3	440.0	437.7
60°	408.4	412.2	416.3	405.3	401.5
62.5°	371.4	377.5	383.2	370.7	365.3
65°	315.9	325.5	331.6	318.6	308.0
67.5°	262.4	274.3	281.6	267.6	255.7
70°	225.4	238.8	247.0	232.9	219.4
72.5°	193.1	208.1	214.7	201.4	188.0
75°	145.6	159.1	167.3	156.1	141.7
77.5°	103.3	116.0	122.8	113.1	101.2
80°	75.8	89.2	94.5	86.4	76.8
82.5°	53.7	64.9	68.5	63.6	57.1
85°	24.6	32.3	36.4	34.4	32.5
87.5°	6.5	12.5	16.3	16.7	17.5
90°	1.0	3.9	6.9	8.8	8.8
92.5°	8.8	40.1	69.6	29.9	25.3
95°	21.6	80.1	255.0	111.0	74.6
97.5°	35.7	88.5	391.0	304.2	213.7
100°	45.1	94.0	432.6	438.5	354.1
102.5°	54.5	99.6	443.6	542.3	467.9
105°	70.6	110.0	437.5	666.1	626.8
107.5°	87.3	122.0	412.2	730.1	741.0
110°	99.1	130.7	393.4	742.7	789.7

TEST NUMBER: P564646

CATALOG NUMBER: SQ4-PW1-050U-075D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	109.3	139.4	374.5	732.2	803.0
115°	125.6	152.4	350.2	696.7	793.6
117.5°	140.9	166.6	334.7	646.4	755.5
120°	151.1	176.0	327.6	612.6	721.0
122.5°	159.7	184.6	322.9	578.8	683.3
125°	172.6	196.6	316.8	533.9	629.8
127.5°	184.2	208.0	313.5	499.8	582.1
130°	191.3	214.3	311.9	478.4	552.3
132.5°	198.3	221.4	310.4	460.2	525.6
135°	208.0	231.0	308.0	434.8	490.5
137.5°	218.4	239.3	306.8	412.5	459.3
140°	224.6	244.8	306.1	398.2	440.4
142.5°	230.9	249.5	305.3	387.1	422.4
145°	240.3	257.6	304.1	369.5	397.3
147.5°	250.9	265.7	303.1	355.6	377.5
150°	258.0	270.5	303.1	347.6	364.9
152.5°	263.5	274.4	302.3	340.5	354.7
155°	271.7	281.3	302.1	331.8	341.4
157.5°	279.8	287.2	302.1	325.8	333.1
160°	284.5	291.2	302.1	321.9	327.6
162.5°	289.2	294.4	302.9	318.7	322.9
165°	294.3	298.1	303.1	315.9	316.8
167.5°	299.6	301.5	304.1	312.5	313.3
170°	301.2	303.1	304.1	311.0	311.0
172.5°	302.7	303.9	304.1	309.4	309.4
175°	305.1	306.0	304.1	308.0	307.0
177.5°	305.9	305.9	303.5	306.6	305.1
180°	305.1	305.1	305.1	305.1	305.1

(END OF REPORT)