

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: P523684

Luminaire Tested: **SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523684
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 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: 4966.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

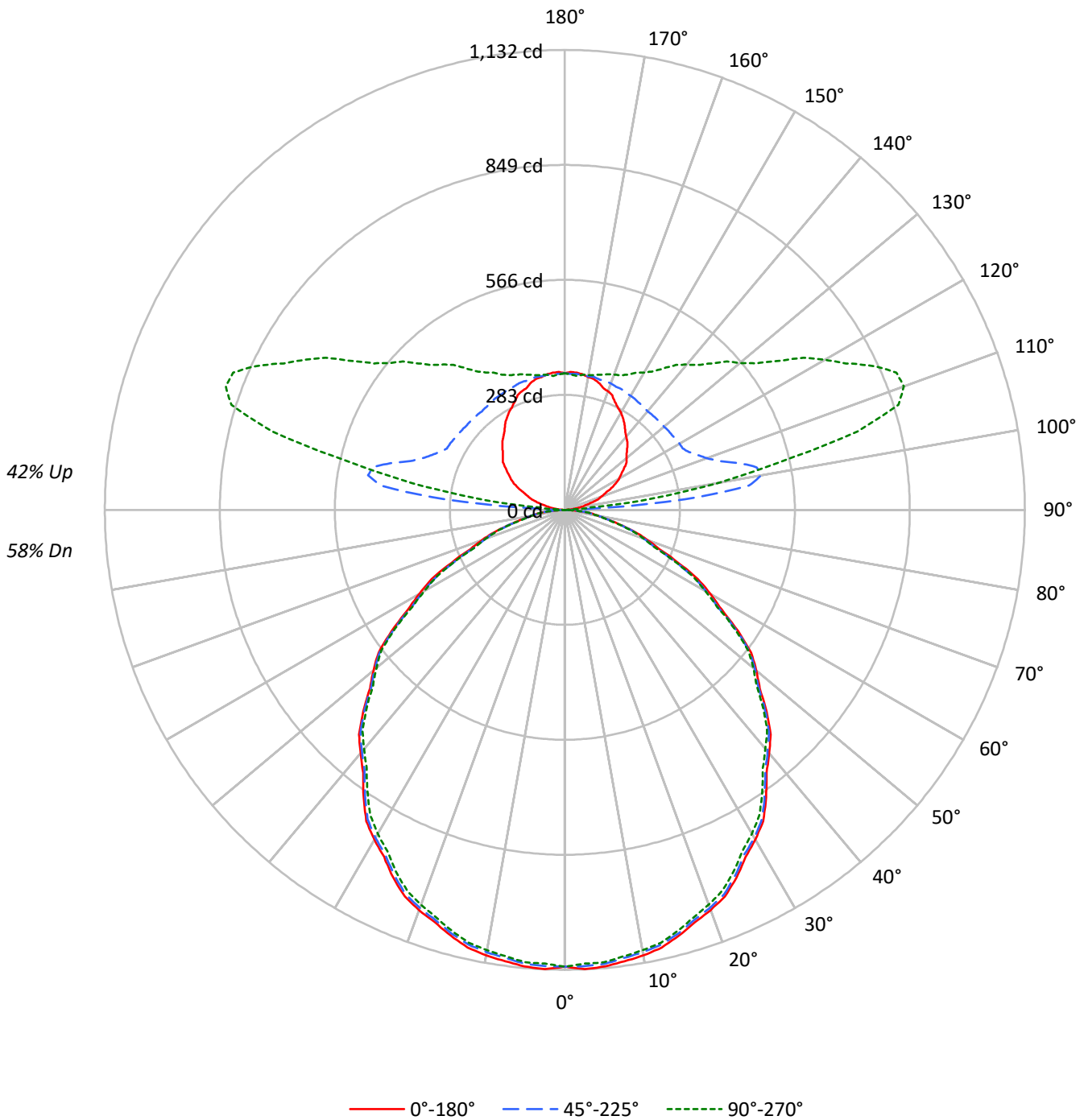
Input Watts (W): 47.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	96	92	88	93	89	86	83	77	75	73	66	65	63	56	55	54	49
2	91	84	78	72	85	78	73	68	68	64	61	59	56	53	50	48	46	42
3	83	74	66	61	77	69	63	57	60	55	51	52	48	45	44	42	39	35
4	76	65	57	51	71	61	54	49	54	48	44	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	65	52	44	38	60	49	42	37	43	37	33	38	33	30	33	29	26	23
7	60	47	39	34	56	45	37	32	39	33	29	34	30	26	30	26	23	21
8	55	43	35	30	52	41	33	29	36	30	26	31	27	23	27	24	21	19
9	52	39	32	27	48	37	30	26	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°	10374	10374	10374
5°	10450	10387	10350
10°	10433	10359	10313
15°	10364	10307	10251
20°	10295	10237	10159
25°	10173	10103	10002
30°	9984	9931	9805
35°	9723	9656	9534
40°	9412	9352	9246
45°	9154	9090	9000
50°	8826	8770	8685
55°	8369	8258	8196
60°	7619	7401	7364
65°	6713	6434	6412
70°	5794	5557	5557
75°	4987	4919	4848
80°	4399	4452	4346
85°	3440	3758	3758



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	2.1
10°-20°	303.6	6.1
20°-30°	454.7	9.2
30°-40°	533.4	10.7
40°-50°	535.0	10.8
50°-60°	456.4	9.2
60°-70°	297.7	6.0
70°-80°	149.4	3.0
80°-90°	41.3	0.8
90°-100°	153.2	3.1
100°-110°	435.9	8.8
110°-120°	417.6	8.4
120°-130°	330.5	6.7
130°-140°	265.3	5.3
140°-150°	207.7	4.2
150°-160°	152.0	3.1
160°-170°	94.1	1.9
170°-180°	31.9	0.6
0°-30°	864.6	17.4
0°-40°	1398.0	28.2
0°-60°	2389.5	48.1
0°-90°	2877.9	57.9
90°-120°	1006.7	20.3
90°-150°	1810.2	36.5
90°-180°	2088.0	42.0
0°-180°	4966.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1118	1122	1118	1118	107
15°	1085	1074	1079	1075	1073	306
25°	999	988	992	984	982	460
35°	863	855	857	848	846	539
45°	702	697	697	690	690	540
55°	520	518	513	510	510	462
65°	308	302	295	293	294	307
75°	140	140	138	137	136	152
85°	32	35	36	36	36	38
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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CATALOG NUMBER: SQ4-PP3-050U-075D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1124.4	1124.4	1124.4	1124.4	1124.4
2.5°	1131.5	1122.3	1124.4	1122.7	1118.1
5°	1128.3	1117.8	1121.5	1117.5	1117.5
7.5°	1120.7	1109.1	1112.8	1108.8	1108.6
10°	1113.6	1102.0	1105.7	1101.7	1100.8
12.5°	1103.3	1091.8	1096.2	1091.5	1091.3
15°	1085.0	1074.4	1079.1	1075.1	1073.2
17.5°	1064.3	1052.7	1058.4	1052.8	1052.1
20°	1048.5	1037.0	1042.6	1034.7	1034.7
22.5°	1029.6	1018.0	1024.5	1014.2	1014.2
25°	999.3	987.7	992.4	983.5	982.5
27.5°	963.2	951.8	956.7	946.6	946.4
30°	937.2	926.6	932.2	921.4	920.4
32.5°	908.8	899.0	903.1	892.2	891.2
35°	863.3	854.6	857.3	847.5	846.5
37.5°	815.4	806.5	809.7	801.2	800.8
40°	781.5	775.7	776.5	769.6	767.7
42.5°	749.9	743.4	744.2	737.3	736.9
45°	701.6	696.8	696.7	689.8	689.8
47.5°	650.4	646.7	645.7	640.0	639.8
50°	614.9	612.0	611.0	606.0	605.1
52.5°	577.9	576.5	573.1	569.0	568.8
55°	520.3	518.4	513.4	510.4	509.5
57.5°	457.8	454.0	448.4	444.1	444.8
60°	412.9	409.1	401.1	399.1	399.1
62.5°	369.5	364.9	356.9	354.2	355.8
65°	307.5	301.7	294.7	292.7	293.7
67.5°	251.1	245.9	238.3	238.3	237.5
70°	214.8	211.9	206.0	206.0	206.0
72.5°	182.5	181.2	176.8	176.8	176.0
75°	139.9	139.9	138.0	137.0	136.0
77.5°	104.9	105.2	104.3	103.2	101.5
80°	82.8	84.7	83.8	82.8	81.8
82.5°	62.3	64.2	64.1	62.3	62.1
85°	32.5	35.4	35.5	35.5	35.5
87.5°	8.7	11.8	12.6	12.6	13.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)