

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: P561491

Luminaire Tested: **SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561491
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PC3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 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: 5907.6 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

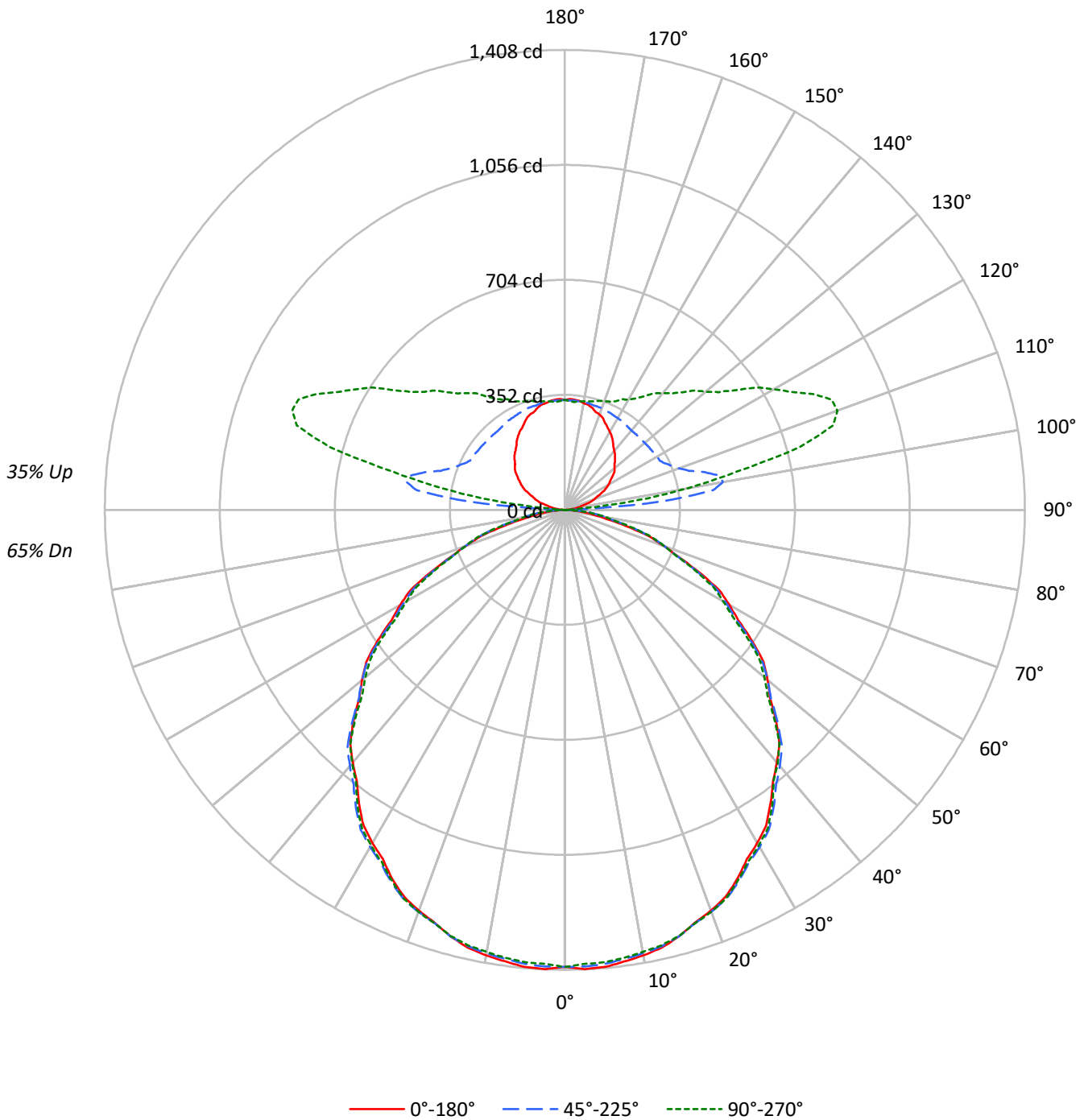
Input Watts (W): 58.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	111	111	111	111	104	104	104	104	91	91	91	80	80	80	70	70	70	65
1	101	97	93	89	95	91	88	85	80	78	75	71	69	67	62	60	59	55
2	92	85	78	73	86	80	74	69	71	66	63	62	59	56	54	52	50	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39
4	77	66	58	51	72	62	55	49	55	49	45	49	44	41	43	39	36	33
5	71	59	50	44	66	55	48	42	49	43	39	44	39	35	39	35	32	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22
8	56	43	35	30	52	41	34	29	37	31	26	33	28	24	29	25	22	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	12911	12911	12911
5°	13009	12924	12877
10°	12977	12916	12880
15°	12909	12909	12897
20°	12824	12862	12862
25°	12703	12795	12756
30°	12548	12700	12645
35°	12361	12552	12464
40°	12157	12329	12204
45°	11936	12021	11834
50°	11625	11625	11438
55°	11255	11109	10943
60°	10712	10496	10330
65°	9900	9702	9619
70°	8667	8737	8702
75°	6976	7714	7760
80°	4957	6540	6610
85°	3017	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.4	2.2
10°-20°	380.1	6.4
20°-30°	575.6	9.7
30°-40°	690.0	11.7
40°-50°	703.6	11.9
50°-60°	614.2	10.4
60°-70°	439.7	7.4
70°-80°	226.5	3.8
80°-90°	57.3	1.0
90°-100°	153.2	2.6
100°-110°	435.9	7.4
110°-120°	417.6	7.1
120°-130°	330.5	5.6
130°-140°	265.3	4.5
140°-150°	207.7	3.5
150°-160°	152.0	2.6
160°-170°	94.1	1.6
170°-180°	31.9	0.5
0°-30°	1088.1	18.4
0°-40°	1778.1	30.1
0°-60°	3095.9	52.4
0°-90°	3819.3	64.7
90°-120°	1006.7	17.0
90°-150°	1810.2	30.6
90°-180°	2088.0	35.3
0°-180°	5907.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1399	1399	1399	1399	1399	
5°	1405	1391	1396	1392	1390	133
15°	1352	1340	1352	1351	1350	381
25°	1248	1239	1257	1253	1253	574
35°	1098	1095	1114	1107	1107	686
45°	915	912	921	910	907	704
55°	700	691	691	680	680	624
65°	454	443	444	441	441	449
75°	196	204	216	218	218	211
85°	28	44	52	53	52	39
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-PC3-050U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1399.4	1399.4	1399.4	1399.4	1399.4
2.5°	1407.7	1395.6	1399.4	1396.2	1391.1
5°	1404.6	1390.7	1395.5	1391.6	1390.4
7.5°	1394.5	1380.6	1387.0	1384.4	1383.1
10°	1385.2	1371.2	1378.7	1376.1	1374.8
12.5°	1372.7	1359.8	1368.3	1365.7	1365.5
15°	1351.5	1340.1	1351.5	1351.4	1350.2
17.5°	1324.8	1314.4	1326.6	1327.4	1326.6
20°	1306.1	1294.7	1310.0	1308.7	1310.0
22.5°	1283.3	1273.9	1290.3	1287.0	1288.2
25°	1247.8	1238.9	1256.9	1253.0	1253.0
27.5°	1205.8	1199.5	1219.1	1214.9	1214.9
30°	1177.8	1171.5	1192.1	1186.9	1186.9
32.5°	1146.7	1142.4	1162.0	1155.8	1155.8
35°	1097.5	1095.0	1114.4	1106.6	1106.6
37.5°	1046.7	1044.4	1062.0	1052.6	1049.6
40°	1009.4	1008.1	1023.7	1013.3	1013.3
42.5°	972.1	970.8	984.3	971.8	971.8
45°	914.8	912.3	921.3	909.6	907.0
47.5°	852.4	849.8	855.5	842.7	841.5
50°	809.9	807.3	809.9	798.2	796.9
52.5°	766.3	761.8	762.2	750.5	750.2
55°	699.7	690.8	690.6	680.3	680.3
57.5°	629.2	617.6	618.6	609.8	608.5
60°	580.5	567.8	568.8	561.0	559.8
62.5°	532.8	518.1	521.2	512.3	512.1
65°	453.5	443.4	444.4	440.6	440.6
67.5°	377.3	367.9	374.7	371.6	371.4
70°	321.3	315.0	323.9	323.9	322.6
72.5°	269.5	269.3	280.4	280.4	281.2
75°	195.7	204.5	216.4	217.7	217.7
77.5°	130.6	146.3	159.4	159.9	159.6
80°	93.3	111.0	123.1	125.7	124.4
82.5°	63.2	82.0	92.0	94.6	93.3
85°	28.5	43.7	51.8	53.1	51.8
87.5°	8.3	17.4	20.7	20.7	18.7
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)