

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: P562515

Luminaire Tested: **SQ4-PC3-025U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562515
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-PC3-025U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

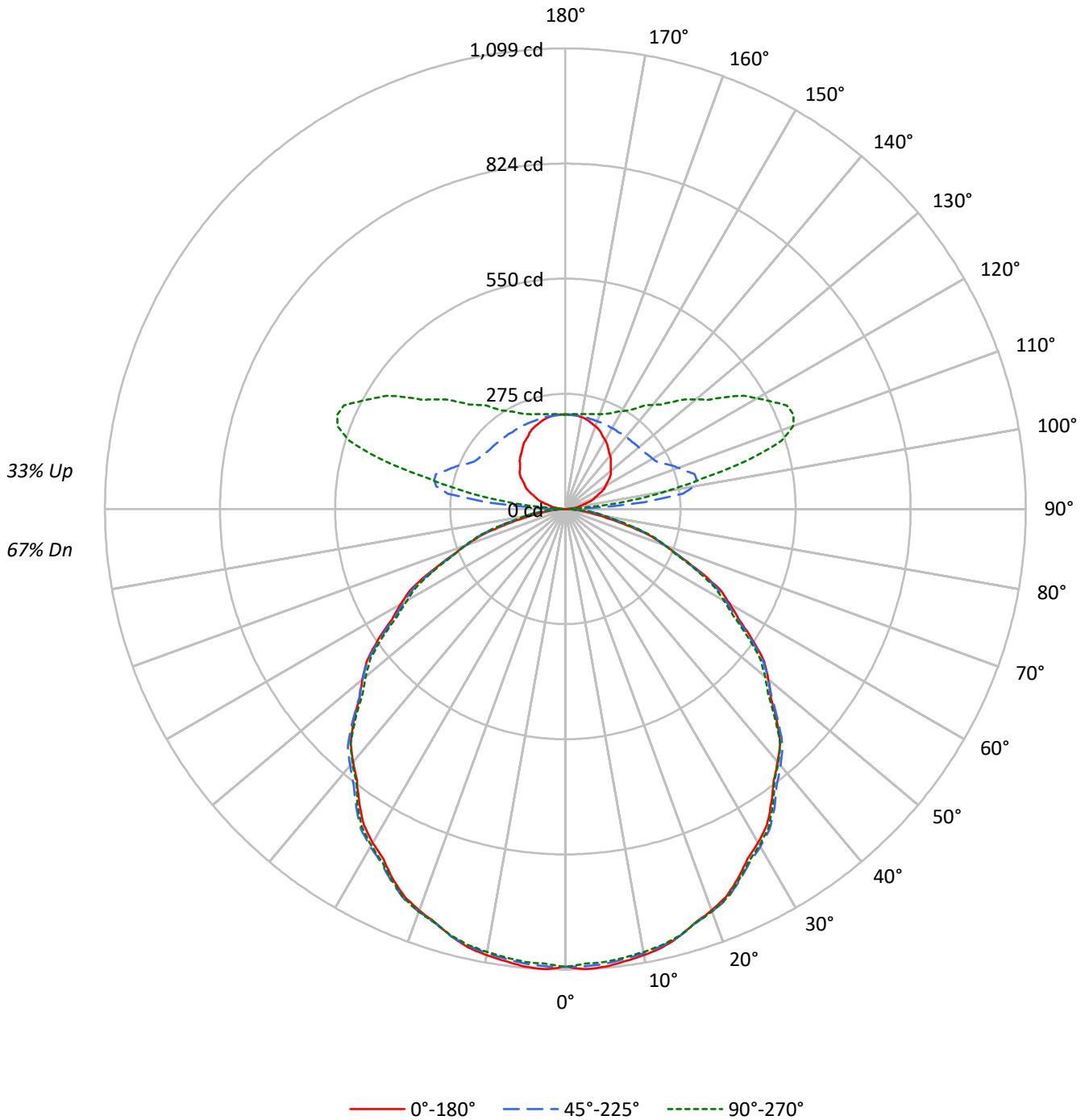
Lumens per Lamp: N/A
Luminaire Lumens: 4446.3 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 34.9
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	105	105	105	105	93	93	93	82	82	82	72	72	72	67
1	102	97	93	90	96	92	88	85	82	79	77	72	70	68	64	62	61	57
2	93	85	79	73	87	80	75	70	72	67	63	63	60	57	56	54	51	47
3	85	75	67	61	79	71	64	59	63	58	53	56	52	48	50	46	44	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	41	38	34
5	71	59	51	44	67	56	48	43	50	44	39	45	40	36	40	36	33	30
6	65	53	45	39	61	50	43	37	45	39	34	41	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	26	23
8	56	44	36	30	53	41	34	29	38	31	27	34	29	25	30	26	23	21
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	28	24	21	19
10	49	37	29	24	46	35	28	23	32	26	22	29	24	20	26	22	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6720	6720	6720
5°	6770	6727	6702
10°	6754	6722	6703
15°	6719	6719	6712
20°	6674	6694	6694
25°	6611	6659	6639
30°	6531	6610	6581
35°	6433	6533	6487
40°	6327	6416	6352
45°	6213	6256	6159
50°	6049	6049	5953
55°	5858	5782	5695
60°	5575	5463	5376
65°	5154	5050	5005
70°	4512	4548	4530
75°	3629	4014	4038
80°	2579	3404	3439
85°	1574	2858	2858



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.4	2.3
10°-20°	296.7	6.7
20°-30°	449.3	10.1
30°-40°	538.7	12.1
40°-50°	549.3	12.4
50°-60°	479.5	10.8
60°-70°	343.3	7.7
70°-80°	176.8	4.0
80°-90°	45.9	1.0
90°-100°	110.0	2.5
100°-110°	289.3	6.5
110°-120°	300.0	6.7
120°-130°	240.6	5.4
130°-140°	188.8	4.2
140°-150°	144.9	3.3
150°-160°	104.4	2.3
160°-170°	63.9	1.4
170°-180°	21.6	0.5
0°-30°	849.4	19.1
0°-40°	1388.1	31.2
0°-60°	2416.9	54.4
0°-90°	2982.9	67.1
90°-120°	699.3	15.7
90°-150°	1273.6	28.6
90°-180°	1463.0	32.9
0°-180°	4446.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1092	1092	1092	1092	1092	
5°	1096	1086	1090	1086	1085	104
15°	1055	1046	1055	1055	1054	297
25°	974	967	981	978	978	448
35°	857	855	870	864	864	536
45°	714	712	719	710	708	550
55°	546	539	539	531	531	487
65°	354	346	347	344	344	350
75°	153	160	169	170	170	165
85°	22	34	40	42	40	30
90°	1	4	12	6	6	2
95°	14	57	190	98	67	16
105°	52	79	320	486	453	55
115°	93	112	256	511	583	91
125°	129	144	233	394	465	114
135°	153	169	226	318	360	119
145°	178	189	223	271	292	112
155°	201	207	223	245	252	92
165°	217	220	223	232	234	61
175°	226	226	224	227	227	21
180°	226	226	226	226	226	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1092.5	1092.5	1092.5	1092.5	1092.5
2.5°	1099.0	1089.5	1092.5	1090.0	1086.0
5°	1096.5	1085.7	1089.5	1086.4	1085.4
7.5°	1088.7	1077.8	1082.8	1080.7	1079.8
10°	1081.4	1070.5	1076.3	1074.3	1073.3
12.5°	1071.7	1061.6	1068.2	1066.2	1066.0
15°	1055.1	1046.2	1055.1	1055.1	1054.1
17.5°	1034.2	1026.1	1035.7	1036.2	1035.7
20°	1019.7	1010.8	1022.7	1021.7	1022.7
22.5°	1001.9	994.5	1007.3	1004.7	1005.7
25°	974.1	967.2	981.2	978.2	978.2
27.5°	941.4	936.4	951.7	948.5	948.5
30°	919.5	914.6	930.7	926.6	926.6
32.5°	895.2	891.9	907.2	902.3	902.3
35°	856.8	854.8	870.0	863.9	863.9
37.5°	817.2	815.4	829.1	821.8	819.4
40°	788.0	787.0	799.1	791.1	791.1
42.5°	758.9	757.9	768.4	758.7	758.7
45°	714.2	712.2	719.2	710.1	708.1
47.5°	665.4	663.4	667.8	657.9	656.9
50°	632.2	630.3	632.2	623.1	622.1
52.5°	598.2	594.7	595.0	585.9	585.7
55°	546.3	539.3	539.2	531.1	531.1
57.5°	491.2	482.1	482.9	476.0	475.0
60°	453.2	443.3	444.1	438.0	437.0
62.5°	416.0	404.5	406.9	400.0	399.8
65°	354.1	346.1	347.0	343.9	343.9
67.5°	294.6	287.3	292.5	290.1	289.9
70°	250.9	245.9	252.9	252.9	251.9
72.5°	210.4	210.2	218.9	218.9	219.5
75°	152.7	159.7	168.9	169.9	169.9
77.5°	102.0	114.2	124.4	124.8	124.6
80°	72.8	86.7	96.1	98.1	97.1
82.5°	49.4	64.0	71.8	73.8	72.8
85°	22.3	34.1	40.5	41.5	40.5
87.5°	6.8	14.5	18.5	17.3	15.7
90°	1.4	4.3	11.6	5.8	5.8
92.5°	6.1	29.3	64.8	28.7	18.5
95°	14.5	56.9	189.6	97.7	66.6
97.5°	25.2	62.5	283.7	225.6	166.2
100°	33.3	67.3	312.6	316.8	246.0
102.5°	40.2	71.9	320.7	394.6	334.0
105°	52.1	79.0	319.9	485.6	453.0
107.5°	64.3	89.2	301.6	532.8	540.7
110°	72.4	95.0	286.6	545.0	578.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	80.5	102.0	272.7	537.3	589.4
115°	92.6	112.4	256.2	511.1	583.3
117.5°	104.5	122.6	244.9	474.8	554.9
120°	111.4	128.4	240.3	450.4	528.3
122.5°	118.4	135.4	236.8	426.1	502.8
125°	128.8	144.4	233.0	393.8	464.6
127.5°	137.2	153.1	229.8	367.8	427.5
130°	141.8	158.8	228.7	351.5	406.7
132.5°	146.5	163.5	227.5	337.5	387.0
135°	153.4	169.0	225.8	317.9	360.4
137.5°	160.7	175.9	225.5	303.3	338.1
140°	166.4	180.6	224.3	291.7	324.2
142.5°	171.1	184.1	224.3	283.4	311.5
145°	178.0	189.3	222.9	271.1	292.4
147.5°	185.0	196.0	222.9	260.9	278.5
150°	189.6	199.5	222.9	255.1	269.2
152.5°	194.2	201.9	222.9	250.3	261.1
155°	201.2	206.8	222.9	244.8	251.8
157.5°	206.4	211.8	222.9	239.8	244.9
160°	209.9	214.1	222.9	237.4	240.3
162.5°	213.3	216.5	222.9	235.1	237.9
165°	217.1	219.9	222.9	231.6	234.5
167.5°	220.6	222.0	224.3	230.2	231.3
170°	222.9	224.3	224.3	230.1	230.1
172.5°	224.0	224.3	224.3	228.9	227.8
175°	225.8	225.8	224.3	227.2	227.2
177.5°	225.8	225.8	224.6	226.9	225.8
180°	225.8	225.8	225.8	225.8	225.8

(END OF REPORT)