

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: P562899

Luminaire Tested: **SQ4-PC3-100U-050D-840-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562899
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-PC3-100U-050D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

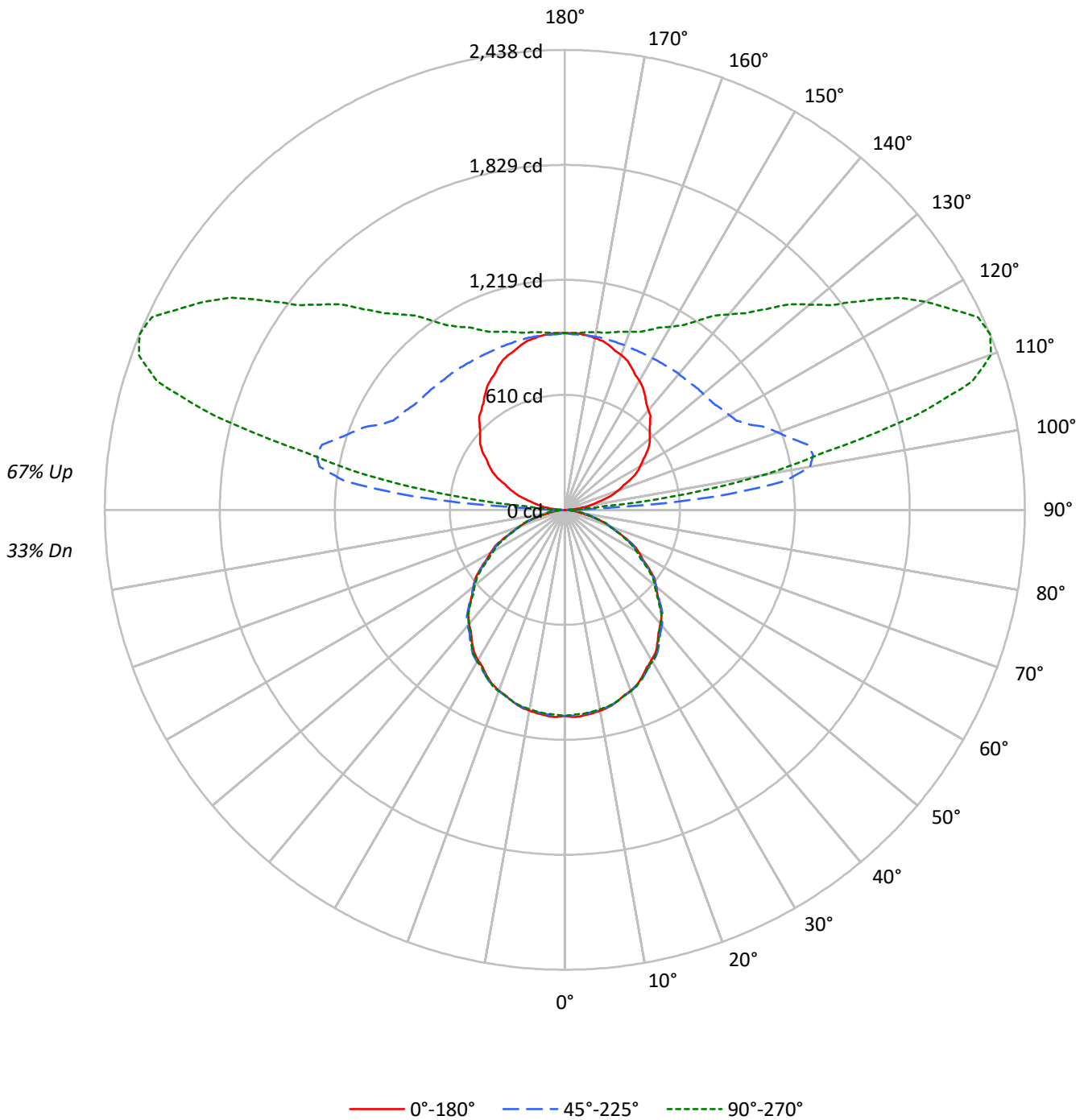
Lumens per Lamp: N/A
Luminaire Lumens: 9068.7 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 64.3
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



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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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	85	81	78	75	65	63	61	50	48	47	36	35	34	28
2	86	78	72	67	77	71	66	62	57	53	50	44	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	46	42	38	36	33	28	26	24	20
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	59	49	42	37	39	34	31	31	27	24	22	20	18	15
6	60	48	40	35	54	44	37	32	35	30	27	28	24	21	20	18	16	13
7	55	43	36	30	50	40	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	21	23	19	17	17	14	13	10
9	48	36	29	24	43	33	26	22	27	22	18	21	17	15	16	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

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	1.1
10°-20°	296.7	3.3
20°-30°	449.3	5.0
30°-40°	538.7	5.9
40°-50°	549.3	6.1
50°-60°	479.5	5.3
60°-70°	343.3	3.8
70°-80°	176.8	1.9
80°-90°	46.7	0.5
90°-100°	438.6	4.8
100°-110°	1210.8	13.4
110°-120°	1248.7	13.8
120°-130°	1003.5	11.1
130°-140°	788.6	8.7
140°-150°	604.8	6.7
150°-160°	434.7	4.8
160°-170°	265.8	2.9
170°-180°	89.6	1.0
0°-30°	849.4	9.4
0°-40°	1388.1	15.3
0°-60°	2416.9	26.7
0°-90°	2983.6	32.9
90°-120°	2898.1	32.0
90°-150°	5295.0	58.4
90°-180°	6085.0	67.1
0°-180°	9068.7	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°	3	6	12	14	15	5
95°	64	237	796	327	213	69
105°	216	333	1332	2034	1915	230
115°	387	467	1073	2124	2416	380
125°	530	604	972	1646	1932	472
135°	638	707	946	1333	1503	494
145°	740	792	934	1135	1221	463
155°	835	862	926	1018	1050	385
165°	904	915	930	967	974	255
175°	936	938	932	946	942	89
180°	936	936	936	936	936	



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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°	7.1	14.8	18.6	18.9	17.6
90°	3.0	5.9	12.0	13.5	15.0
92.5°	27.0	112.0	200.2	73.1	56.9
95°	64.4	237.3	795.7	327.1	212.8
97.5°	106.7	265.8	1178.7	907.5	657.2
100°	137.9	282.9	1320.1	1329.5	1080.4
102.5°	167.8	302.3	1347.7	1642.6	1406.4
105°	215.8	333.0	1332.1	2033.7	1915.0
107.5°	266.7	371.0	1257.8	2222.3	2265.7
110°	302.7	396.5	1200.3	2262.9	2403.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.1	425.3	1146.3	2230.8	2438.3
115°	386.6	467.2	1072.9	2123.9	2415.5
117.5°	431.6	511.8	1024.6	1973.5	2305.2
120°	461.5	540.6	1005.5	1871.7	2205.7
122.5°	490.3	565.9	989.9	1776.6	2093.0
125°	530.5	603.7	972.5	1645.8	1931.5
127.5°	564.6	637.9	962.3	1535.2	1781.7
130°	587.4	660.7	957.5	1467.6	1691.8
132.5°	609.0	678.7	952.7	1410.8	1613.8
135°	638.3	707.2	945.5	1333.0	1502.9
137.5°	671.3	734.0	941.9	1267.7	1412.7
140°	689.3	750.8	939.5	1224.1	1351.6
142.5°	709.7	766.5	937.1	1185.4	1297.7
145°	740.2	791.5	933.5	1134.8	1221.2
147.5°	769.6	814.4	930.2	1092.1	1159.2
150°	791.2	827.8	929.0	1066.6	1120.8
152.5°	808.0	842.2	927.8	1044.8	1089.7
155°	834.6	862.5	926.0	1018.2	1050.4
157.5°	859.2	880.6	926.3	998.8	1020.7
160°	873.6	892.6	927.5	987.8	1004.0
162.5°	885.6	902.3	928.7	978.2	990.8
165°	903.6	915.3	930.5	966.7	974.0
167.5°	917.4	924.4	932.0	959.7	962.0
170°	924.5	930.4	932.0	956.0	956.0
172.5°	930.5	934.1	932.0	951.2	950.0
175°	936.5	938.0	932.0	945.5	942.5
177.5°	938.9	937.8	931.7	940.1	937.7
180°	936.5	936.5	936.5	936.5	936.5

(END OF REPORT)