

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: P562561

Luminaire Tested: **SQ4-PC3-025U-100D-840-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562561
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-100D-840-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

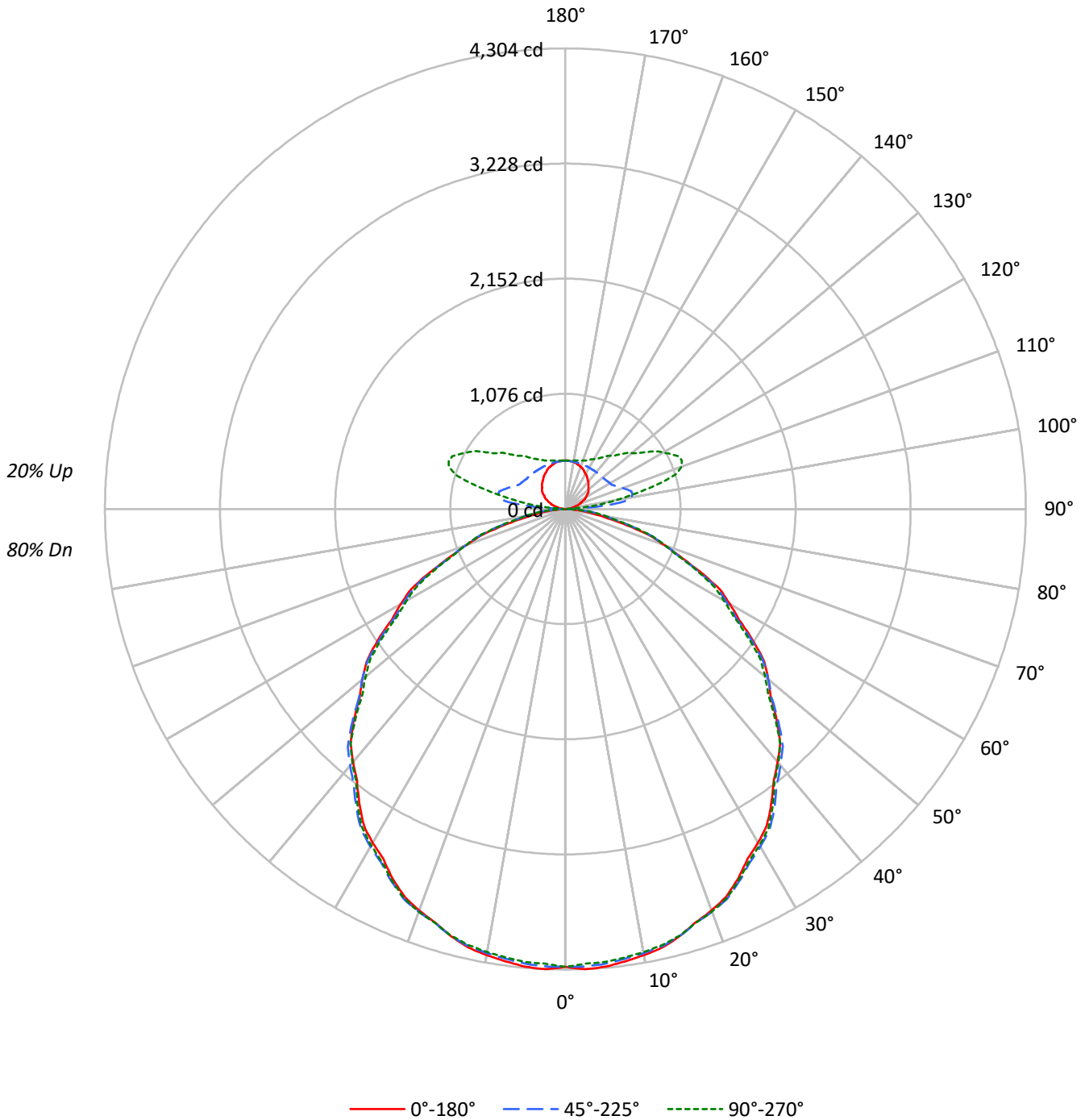
Lumens per Lamp: N/A
Luminaire Lumens: 14607.6 lumens
Efficiency: N/A
Efficacy: 118.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 123.6
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	114	114	114	114	109	109	109	109	100	100	100	91	91	91	84	84	84	80
1	105	100	96	92	100	96	92	89	88	85	83	81	79	77	74	72	71	68
2	95	88	81	76	91	84	78	73	77	73	69	71	67	64	65	62	60	57
3	87	77	69	63	83	74	67	61	68	62	58	63	58	54	58	54	51	48
4	80	68	60	53	76	66	58	52	61	54	49	56	51	46	52	47	44	41
5	73	61	52	46	70	59	51	45	54	48	43	50	45	40	46	42	38	36
6	68	55	46	40	64	53	45	39	49	42	37	45	40	35	42	37	34	31
7	63	50	41	35	60	48	40	34	45	38	33	41	36	31	38	34	30	28
8	58	45	37	31	56	44	36	31	41	34	29	38	32	28	35	30	27	25
9	54	41	33	28	52	40	33	28	37	31	26	35	29	25	33	28	24	22
10	51	38	30	25	49	37	30	25	35	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13160	13160	13160
5°	13259	13173	13124
10°	13226	13165	13127
15°	13157	13157	13145
20°	13070	13109	13109
25°	12947	13041	13001
30°	12790	12944	12888
35°	12599	12793	12703
40°	12391	12566	12439
45°	12166	12252	12062
50°	11848	11848	11658
55°	11472	11323	11153
60°	10918	10698	10528
65°	10091	9889	9803
70°	8835	8906	8871
75°	7109	7863	7909
80°	5053	6666	6737
85°	3077	5593	5593



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	405.0	2.8
10°-20°	1162.1	8.0
20°-30°	1759.9	12.0
30°-40°	2109.9	14.4
40°-50°	2151.3	14.7
50°-60°	1878.0	12.9
60°-70°	1344.5	9.2
70°-80°	692.5	4.7
80°-90°	177.5	1.2
90°-100°	220.1	1.5
100°-110°	578.6	4.0
110°-120°	600.0	4.1
120°-130°	481.3	3.3
130°-140°	377.6	2.6
140°-150°	289.8	2.0
150°-160°	208.7	1.4
160°-170°	127.7	0.9
170°-180°	43.1	0.3
0°-30°	3327.0	22.8
0°-40°	5436.8	37.2
0°-60°	9466.2	64.8
0°-90°	11680.7	80.0
90°-120°	1398.7	9.6
90°-150°	2547.3	17.4
90°-180°	2927.0	20.0
0°-180°	14607.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4279	4279	4279	4279	4279	
5°	4295	4252	4267	4255	4251	408
15°	4132	4098	4132	4132	4128	1165
25°	3816	3788	3843	3831	3831	1756
35°	3356	3348	3407	3384	3384	2099
45°	2797	2790	2817	2781	2773	2153
55°	2140	2112	2112	2080	2080	1907
65°	1387	1356	1359	1347	1347	1371
75°	598	625	662	666	666	647
85°	87	134	158	162	158	119
90°	3	9	23	12	12	6
95°	29	114	379	195	133	32
105°	104	158	640	971	906	110
115°	185	225	512	1022	1167	183
125°	258	289	466	788	929	229
135°	307	338	452	636	721	237
145°	356	379	446	542	585	223
155°	402	414	446	490	504	185
165°	434	440	446	463	469	123
175°	452	452	449	454	454	43
180°	452	452	452	452	452	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4279.0	4279.0	4279.0	4279.0	4279.0
2.5°	4304.4	4267.2	4279.0	4269.2	4253.7
5°	4294.9	4252.2	4267.1	4255.2	4251.3
7.5°	4264.0	4221.3	4241.0	4233.0	4229.1
10°	4235.4	4192.8	4215.6	4207.6	4203.7
12.5°	4197.4	4157.9	4183.9	4176.0	4175.2
15°	4132.4	4097.6	4132.4	4132.3	4128.5
17.5°	4050.8	4019.0	4056.3	4058.7	4056.3
20°	3993.7	3958.9	4005.6	4001.8	4005.6
22.5°	3924.0	3895.3	3945.4	3935.2	3939.1
25°	3815.5	3788.3	3843.2	3831.3	3831.3
27.5°	3687.1	3667.7	3727.5	3714.8	3714.8
30°	3601.5	3582.1	3645.1	3629.2	3629.2
32.5°	3506.4	3493.2	3553.2	3534.1	3534.1
35°	3355.9	3348.1	3407.4	3383.6	3383.6
37.5°	3200.5	3193.6	3247.3	3218.6	3209.3
40°	3086.4	3082.6	3130.0	3098.3	3098.3
42.5°	2972.3	2968.5	3009.6	2971.5	2971.5
45°	2797.2	2789.5	2817.0	2781.2	2773.4
47.5°	2606.2	2598.5	2615.7	2576.8	2573.0
50°	2476.3	2468.5	2476.3	2440.5	2436.7
52.5°	2343.2	2329.2	2330.5	2294.8	2294.0
55°	2139.5	2112.4	2111.8	2080.1	2080.1
57.5°	1924.0	1888.3	1891.5	1864.5	1860.6
60°	1775.0	1736.3	1739.3	1715.5	1711.6
62.5°	1629.2	1584.3	1593.5	1566.6	1565.8
65°	1386.7	1355.7	1359.0	1347.1	1347.1
67.5°	1153.7	1125.1	1145.8	1136.3	1135.5
70°	982.6	963.2	990.5	990.4	986.6
72.5°	824.1	823.3	857.4	857.4	859.8
75°	598.3	625.4	661.7	665.6	665.6
77.5°	399.4	447.4	487.3	488.9	488.1
80°	285.3	339.5	376.4	384.2	380.4
82.5°	193.3	250.7	281.3	289.1	285.3
85°	87.2	133.7	158.5	162.4	158.5
87.5°	25.9	55.0	68.0	65.6	59.4
90°	2.9	8.6	23.2	11.6	11.6
92.5°	12.2	58.6	129.7	57.4	37.1
95°	28.9	113.9	379.2	195.4	133.2
97.5°	50.4	125.1	567.4	451.2	332.3
100°	66.6	134.5	625.3	633.6	492.1
102.5°	80.5	143.9	641.5	789.2	668.1
105°	104.2	158.0	639.7	971.1	906.0
107.5°	128.5	178.3	603.3	1065.6	1081.5
110°	144.7	190.0	573.2	1090.0	1157.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	160.9	204.0	545.4	1074.6	1178.7
115°	185.3	224.9	512.4	1022.2	1166.6
117.5°	209.0	245.2	489.8	949.6	1109.8
120°	222.9	256.9	480.5	900.9	1056.6
122.5°	236.8	270.8	473.6	852.2	1005.6
125°	257.6	288.8	466.0	787.7	929.2
127.5°	274.4	306.1	459.7	735.7	855.1
130°	283.7	317.6	457.4	703.0	813.4
132.5°	292.9	326.9	455.0	675.0	774.0
135°	306.8	338.0	451.6	635.9	720.8
137.5°	321.3	351.9	451.0	606.6	676.2
140°	332.9	361.2	448.7	583.3	648.4
142.5°	342.2	368.2	448.7	566.9	622.9
145°	356.0	378.7	445.8	542.3	584.7
147.5°	369.9	392.0	445.8	521.8	556.9
150°	379.2	399.0	445.8	510.1	538.4
152.5°	388.5	403.8	445.8	500.7	522.2
155°	402.4	413.7	445.8	489.5	503.7
157.5°	412.8	423.5	445.8	479.6	489.8
160°	419.7	428.2	445.8	474.9	480.5
162.5°	426.7	432.9	445.8	470.2	475.9
165°	434.2	439.9	445.8	463.3	468.9
167.5°	441.2	444.0	448.7	460.3	462.6
170°	445.8	448.6	448.7	460.3	460.3
172.5°	448.1	448.7	448.7	457.9	455.6
175°	451.6	451.6	448.7	454.5	454.5
177.5°	451.6	451.6	449.3	453.8	451.6
180°	451.6	451.6	451.6	451.6	451.6

(END OF REPORT)