

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: P562634

Luminaire Tested: **SQ4-PC3-050U-075D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562634
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, 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-075D-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

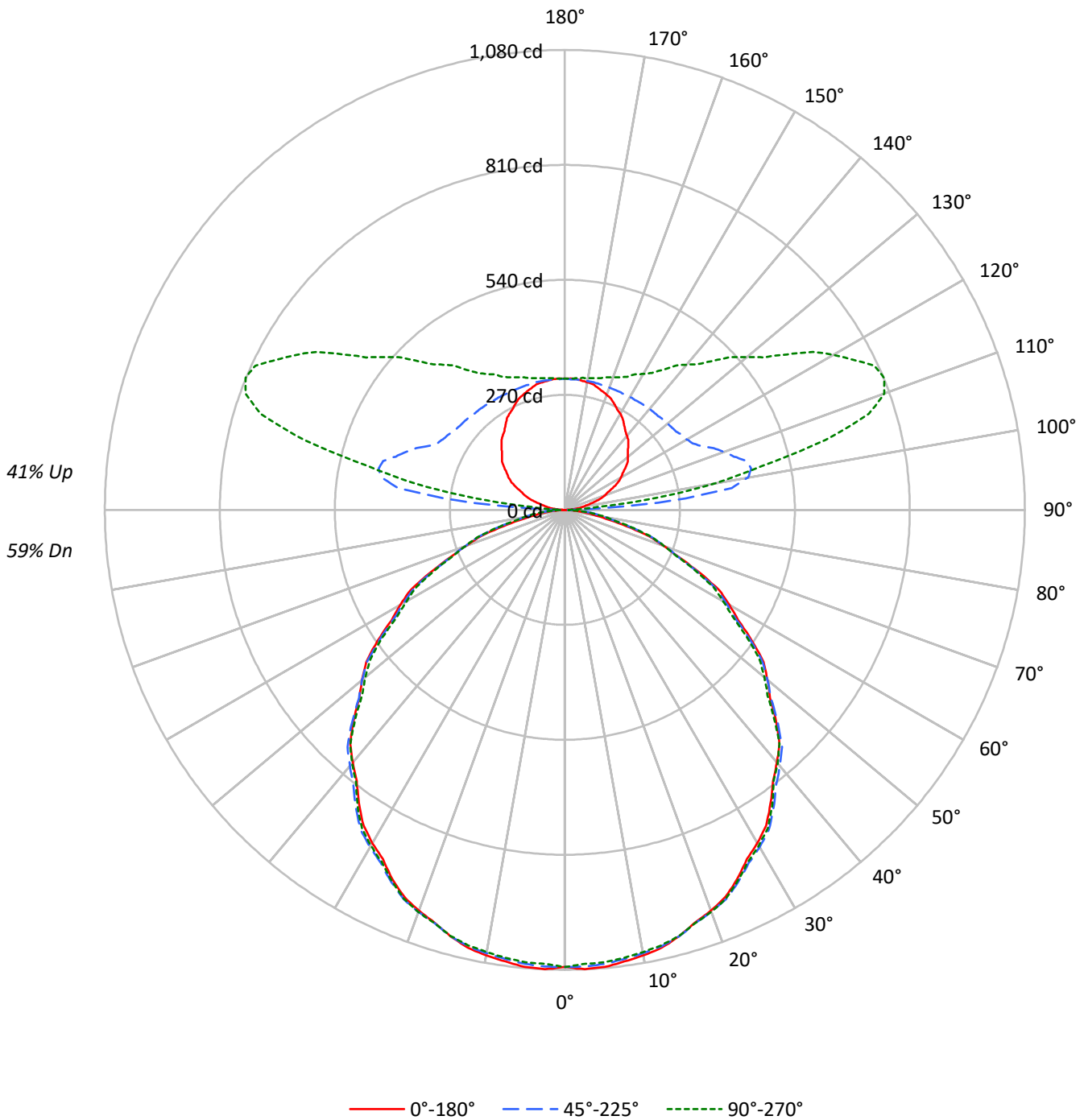
Lumens per Lamp: N/A
Luminaire Lumens: 4942.9 lumens
Efficiency: N/A
Efficacy: 136.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 36.3
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	65	65	65	59
1	100	96	92	88	93	89	86	83	78	75	73	67	65	64	57	56	55	50
2	91	83	77	72	85	78	73	68	68	64	60	59	56	53	50	48	46	42
3	83	73	66	60	77	69	62	57	60	55	51	52	48	45	45	42	39	36
4	76	65	57	51	71	61	54	48	53	48	43	46	42	38	40	37	34	30
5	70	58	50	43	65	54	47	41	48	42	37	42	37	33	36	32	29	26
6	64	52	44	38	60	49	41	36	43	37	33	38	33	29	33	29	26	23
7	59	47	39	33	55	44	37	32	39	33	29	34	29	26	30	26	23	20
8	55	43	35	29	51	40	33	28	36	30	25	31	26	23	27	23	21	18
9	51	39	31	26	48	37	30	25	33	27	23	29	24	21	25	21	18	16
10	48	36	28	23	45	34	27	22	30	24	21	27	22	19	23	20	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9904	9904	9904
5°	9979	9914	9877
10°	9954	9908	9880
15°	9902	9902	9893
20°	9837	9866	9866
25°	9744	9815	9785
30°	9625	9742	9700
35°	9482	9628	9560
40°	9326	9457	9362
45°	9156	9221	9079
50°	8916	8916	8774
55°	8633	8522	8393
60°	8217	8053	7923
65°	7595	7442	7377
70°	6649	6703	6676
75°	5351	5917	5953
80°	3804	5016	5069
85°	2318	4213	4213



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.6	2.1
10°-20°	291.5	5.9
20°-30°	441.5	8.9
30°-40°	529.3	10.7
40°-50°	539.7	10.9
50°-60°	471.1	9.5
60°-70°	337.3	6.8
70°-80°	173.7	3.5
80°-90°	45.1	0.9
90°-100°	147.9	3.0
100°-110°	401.8	8.1
110°-120°	413.2	8.4
120°-130°	330.3	6.7
130°-140°	259.5	5.3
140°-150°	199.0	4.0
150°-160°	143.1	2.9
160°-170°	87.5	1.8
170°-180°	29.5	0.6
0°-30°	834.6	16.9
0°-40°	1363.9	27.6
0°-60°	2374.8	48.0
0°-90°	2930.9	59.3
90°-120°	962.9	19.5
90°-150°	1751.8	35.4
90°-180°	2012.0	40.7
0°-180°	4942.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1074	1074	1074	1074	1074	
5°	1078	1067	1070	1068	1066	102
15°	1037	1028	1037	1037	1036	292
25°	957	950	964	961	961	441
35°	842	840	855	849	849	527
45°	702	700	707	698	696	540
55°	537	530	530	522	522	478
65°	348	340	341	338	338	344
75°	150	157	166	167	167	162
85°	22	34	40	41	40	30
90°	1	4	7	9	9	2
95°	22	81	258	112	75	23
105°	71	111	442	673	633	76
115°	127	154	354	704	802	125
125°	174	199	320	539	636	155
135°	210	233	311	439	495	162
145°	243	260	307	373	401	152
155°	274	284	305	335	345	127
165°	297	301	306	319	320	84
175°	308	309	307	311	310	29
180°	308	308	308	308	308	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.5	1073.5	1073.5	1073.5	1073.5
2.5°	1079.8	1070.5	1073.5	1071.0	1067.1
5°	1077.5	1066.8	1070.5	1067.5	1066.5
7.5°	1069.7	1059.0	1063.9	1061.9	1061.0
10°	1062.5	1051.9	1057.6	1055.6	1054.6
12.5°	1053.0	1043.1	1049.6	1047.6	1047.4
15°	1036.7	1028.0	1036.7	1036.7	1035.7
17.5°	1016.2	1008.3	1017.6	1018.2	1017.6
20°	1001.9	993.2	1004.9	1003.9	1004.9
22.5°	984.4	977.2	989.8	987.2	988.2
25°	957.2	950.4	964.1	961.2	961.2
27.5°	925.0	920.1	935.1	931.9	931.9
30°	903.5	898.7	914.4	910.5	910.5
32.5°	879.7	876.4	891.4	886.6	886.6
35°	841.9	839.9	854.8	848.8	848.8
37.5°	802.9	801.2	814.7	807.4	805.1
40°	774.3	773.3	785.2	777.3	777.3
42.5°	745.7	744.7	755.0	745.5	745.5
45°	701.7	699.8	706.7	697.7	695.8
47.5°	653.8	651.9	656.2	646.5	645.5
50°	621.2	619.3	621.2	612.3	611.3
52.5°	587.8	584.3	584.6	575.7	575.5
55°	536.7	529.9	529.8	521.8	521.8
57.5°	482.7	473.7	474.5	467.7	466.8
60°	445.3	435.6	436.4	430.4	429.4
62.5°	408.7	397.4	399.8	393.0	392.8
65°	347.9	340.1	340.9	337.9	337.9
67.5°	289.4	282.3	287.5	285.1	284.9
70°	246.5	241.6	248.5	248.5	247.5
72.5°	206.7	206.6	215.1	215.1	215.7
75°	150.1	156.9	166.0	167.0	167.0
77.5°	100.2	112.2	122.3	122.7	122.5
80°	71.6	85.2	94.4	96.4	95.4
82.5°	48.5	62.9	70.6	72.5	71.6
85°	21.9	33.5	39.8	40.7	39.8
87.5°	6.6	14.1	17.3	17.7	16.1
90°	1.0	3.9	6.9	8.9	8.9
92.5°	8.9	40.5	70.3	30.2	25.6
95°	21.8	80.9	257.6	112.1	75.3
97.5°	36.1	89.3	394.9	307.3	215.8
100°	45.6	95.0	437.0	442.9	357.7
102.5°	55.1	100.6	448.0	547.8	472.6
105°	71.3	111.1	441.9	672.9	633.1
107.5°	88.2	123.3	416.3	737.4	748.5
110°	100.1	132.0	397.3	750.1	797.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	<i>110.4</i>	140.8	378.3	739.6	811.1
115°	<i>126.8</i>	154.0	353.7	703.7	801.6
117.5°	<i>142.3</i>	168.2	338.1	652.9	763.1
120°	<i>152.6</i>	177.8	330.9	618.8	728.3
122.5°	<i>161.3</i>	186.5	326.2	584.6	690.2
125°	<i>174.4</i>	198.6	320.0	539.2	636.1
127.5°	<i>186.1</i>	210.1	316.7	504.8	588.0
130°	<i>193.2</i>	216.5	315.1	483.2	557.8
132.5°	<i>200.3</i>	223.6	313.5	464.8	530.9
135°	<i>210.1</i>	233.3	311.1	439.2	495.4
137.5°	<i>220.6</i>	241.7	309.9	416.6	463.9
140°	<i>226.9</i>	247.2	309.1	402.2	444.9
142.5°	<i>233.2</i>	252.0	308.3	391.0	426.6
145°	<i>242.8</i>	260.2	307.2	373.2	401.3
147.5°	<i>253.5</i>	268.4	306.2	359.2	381.3
150°	<i>260.6</i>	273.2	306.2	351.1	368.6
152.5°	<i>266.1</i>	277.2	305.4	343.9	358.3
155°	<i>274.5</i>	284.1	305.2	335.1	344.8
157.5°	<i>282.6</i>	290.1	305.2	329.1	336.5
160°	<i>287.3</i>	294.1	305.2	325.1	330.9
162.5°	<i>292.1</i>	297.3	306.0	321.9	326.2
165°	<i>297.2</i>	301.1	306.2	319.1	320.0
167.5°	<i>302.6</i>	304.5	307.2	315.7	316.5
170°	<i>304.2</i>	306.1	307.2	314.1	314.1
172.5°	<i>305.8</i>	306.9	307.2	312.5	312.5
175°	<i>308.1</i>	309.1	307.2	311.1	310.1
177.5°	<i>308.9</i>	308.9	306.6	309.7	308.1
180°	<i>308.1</i>	308.1	308.1	308.1	308.1

(END OF REPORT)