

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: P562614

Luminaire Tested: **SQ4-PC3-050U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562614
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-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

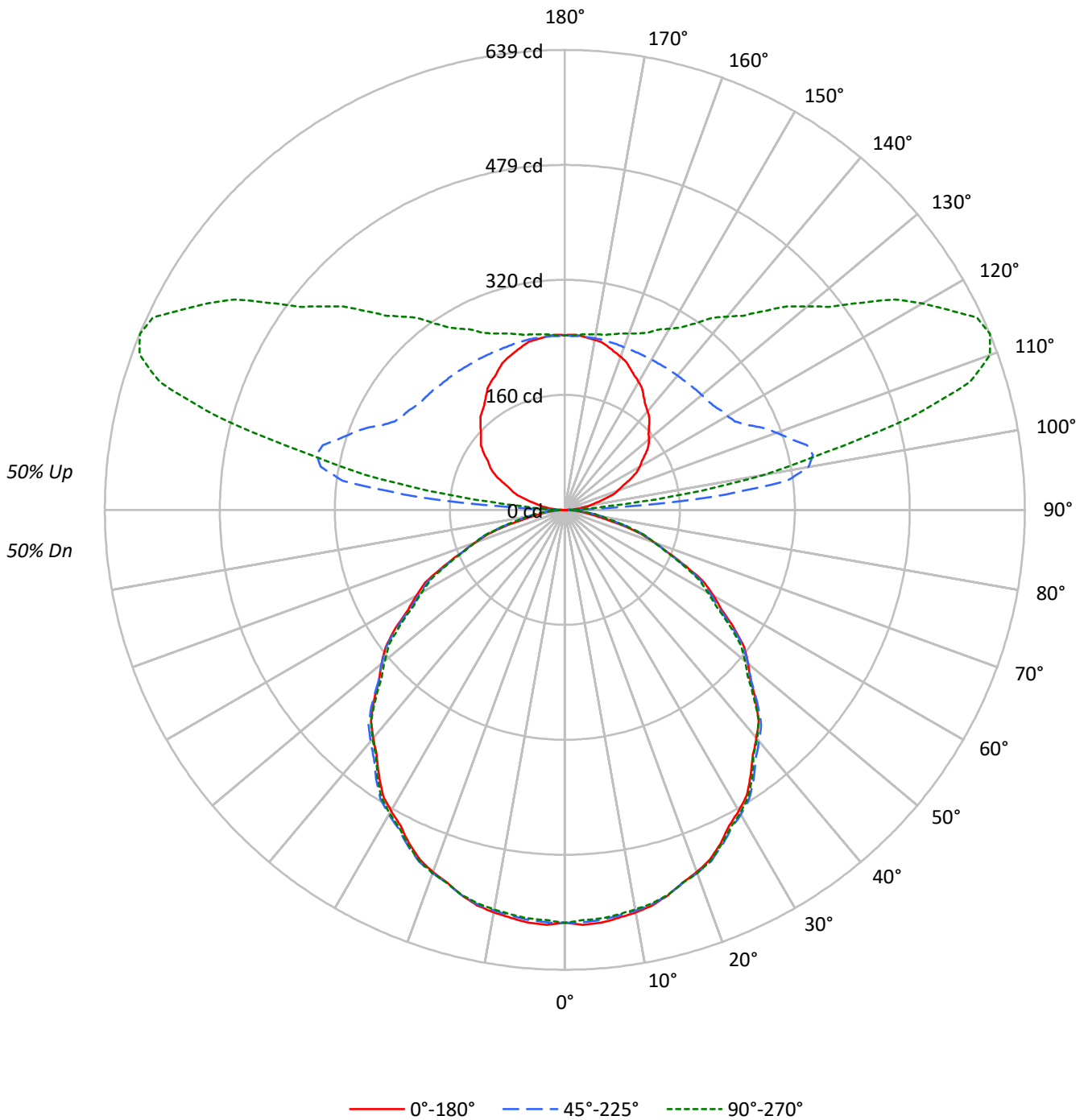
Lumens per Lamp: N/A
Luminaire Lumens: 3152.0 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 28.5
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	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50
1	98	93	90	86	90	86	83	80	73	71	68	61	59	58	49	48	47	42
2	89	82	76	70	82	75	70	66	64	60	57	53	51	48	44	42	40	35
3	81	72	64	59	75	66	60	55	56	52	48	47	44	41	39	36	34	30
4	74	63	56	49	68	59	52	46	50	45	41	42	38	35	34	32	29	25
5	68	56	48	42	63	52	45	40	45	39	35	38	33	30	31	28	25	22
6	63	51	42	37	58	47	40	35	40	35	30	34	30	26	28	25	22	19
7	58	46	38	32	53	42	35	30	36	31	27	31	26	23	26	22	20	17
8	54	41	34	28	49	39	32	27	33	28	24	28	24	21	23	20	18	15
9	50	38	30	25	46	35	28	24	30	25	21	26	22	19	22	18	16	14
10	47	35	27	23	43	32	26	21	28	23	19	24	20	17	20	17	14	12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5273	5273
25°	5208	5247	5230
30°	5146	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4852
50°	4767	4767	4689
55°	4615	4555	4486
60°	4392	4303	4235
65°	4061	3978	3943
70°	3555	3582	3569
75°	2859	3162	3183
80°	2035	2683	2710
85°	1239	2255	2255



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.7
10°-20°	155.8	4.9
20°-30°	236.0	7.5
30°-40°	282.9	9.0
40°-50°	288.5	9.2
50°-60°	251.8	8.0
60°-70°	180.3	5.7
70°-80°	92.9	2.9
80°-90°	24.4	0.8
90°-100°	116.5	3.7
100°-110°	316.6	10.0
110°-120°	325.5	10.3
120°-130°	260.2	8.3
130°-140°	204.5	6.5
140°-150°	156.8	5.0
150°-160°	112.8	3.6
160°-170°	69.0	2.2
170°-180°	23.2	0.7
0°-30°	446.1	14.2
0°-40°	729.1	23.1
0°-60°	1269.4	40.3
0°-90°	1567.0	49.7
90°-120°	758.6	24.1
90°-150°	1380.1	43.8
90°-180°	1585.0	50.3
0°-180°	3152.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	574	574	574	574	574	
5°	576	570	572	571	570	55
15°	554	550	554	554	554	156
25°	512	508	515	514	514	235
35°	450	449	457	454	454	281
45°	375	374	378	373	372	289
55°	287	283	283	279	279	256
65°	186	182	182	181	181	184
75°	80	84	89	89	89	87
85°	12	18	21	22	21	16
90°	1	3	6	7	7	2
95°	17	64	203	88	59	18
105°	56	88	348	530	499	60
115°	100	121	279	554	632	99
125°	137	156	252	425	501	122
135°	166	184	245	346	390	128
145°	191	205	242	294	316	120
155°	216	224	240	264	272	100
165°	234	237	241	251	252	66
175°	243	244	242	245	244	23
180°	243	243	243	243	243	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	573.8	573.8	573.8	573.8	573.8
2.5°	577.2	572.2	573.8	572.5	570.4
5°	575.9	570.2	572.2	570.6	570.1
7.5°	571.8	566.1	568.7	567.6	567.1
10°	568.0	562.2	565.3	564.2	563.7
12.5°	562.9	557.6	561.1	560.0	559.9
15°	554.1	549.5	554.1	554.1	553.6
17.5°	543.2	538.9	543.9	544.3	543.9
20°	535.5	530.9	537.1	536.6	537.1
22.5°	526.2	522.4	529.1	527.7	528.2
25°	511.6	508.0	515.4	513.8	513.8
27.5°	494.4	491.8	499.8	498.1	498.1
30°	483.0	480.4	488.8	486.7	486.7
32.5°	470.2	468.4	476.5	473.9	473.9
35°	450.0	449.0	456.9	453.7	453.7
37.5°	429.2	428.2	435.5	431.6	430.4
40°	413.9	413.4	419.7	415.5	415.5
42.5°	398.6	398.1	403.6	398.5	398.5
45°	375.1	374.1	377.8	372.9	371.9
47.5°	349.5	348.4	350.8	345.5	345.0
50°	332.1	331.0	332.1	327.3	326.7
52.5°	314.2	312.3	312.5	307.7	307.6
55°	286.9	283.3	283.2	278.9	278.9
57.5°	258.0	253.2	253.6	250.0	249.5
60°	238.0	232.8	233.2	230.0	229.5
62.5°	218.5	212.4	213.7	210.1	210.0
65°	186.0	181.8	182.2	180.6	180.6
67.5°	154.7	150.9	153.7	152.4	152.3
70°	131.8	129.2	132.8	132.8	132.3
72.5°	110.5	110.4	115.0	115.0	115.3
75°	80.2	83.9	88.7	89.3	89.3
77.5°	53.6	60.0	65.3	65.6	65.5
80°	38.3	45.5	50.5	51.5	51.0
82.5°	25.9	33.6	37.7	38.8	38.3
85°	11.7	17.9	21.3	21.8	21.3
87.5°	3.6	7.8	9.6	9.9	9.1
90°	0.8	3.1	5.5	7.0	7.0
92.5°	7.0	31.9	55.4	23.8	20.1
95°	17.2	63.7	203.0	88.3	59.3
97.5°	28.4	70.4	311.1	242.1	170.0
100°	35.9	74.8	344.2	349.0	281.8
102.5°	43.4	79.3	353.0	431.6	372.3
105°	56.2	87.5	348.1	530.1	498.8
107.5°	69.5	97.1	328.0	581.0	589.7
110°	78.8	104.0	313.0	591.0	628.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	87.0	110.9	298.0	582.7	639.0
115°	99.9	121.3	278.7	554.4	631.5
117.5°	112.1	132.5	266.3	514.4	601.2
120°	120.2	140.1	260.7	487.5	573.7
122.5°	127.1	146.9	257.0	460.6	543.8
125°	137.4	156.5	252.1	424.8	501.1
127.5°	146.6	165.5	249.5	397.7	463.2
130°	152.2	170.5	248.2	380.7	439.5
132.5°	157.8	176.2	247.0	366.2	418.2
135°	165.5	183.8	245.1	346.0	390.3
137.5°	173.8	190.4	244.2	328.2	365.5
140°	178.8	194.8	243.5	316.9	350.5
142.5°	183.8	198.6	242.9	308.0	336.1
145°	191.2	205.0	242.0	294.0	316.1
147.5°	199.7	211.4	241.2	283.0	300.4
150°	205.3	215.2	241.2	276.6	290.4
152.5°	209.7	218.4	240.6	271.0	282.3
155°	216.2	223.9	240.4	264.0	271.6
157.5°	222.6	228.6	240.4	259.3	265.1
160°	226.4	231.7	240.4	256.1	260.7
162.5°	230.1	234.2	241.0	253.6	257.0
165°	234.2	237.2	241.2	251.4	252.1
167.5°	238.4	239.9	242.0	248.7	249.3
170°	239.6	241.2	242.0	247.4	247.4
172.5°	240.9	241.8	242.0	246.2	246.2
175°	242.8	243.5	242.0	245.1	244.3
177.5°	243.4	243.4	241.5	244.0	242.8
180°	242.8	242.8	242.8	242.8	242.8

(END OF REPORT)