

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: P562519

Luminaire Tested: **SQ4-PC3-025U-050D-930-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562519
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-930-1D-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: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

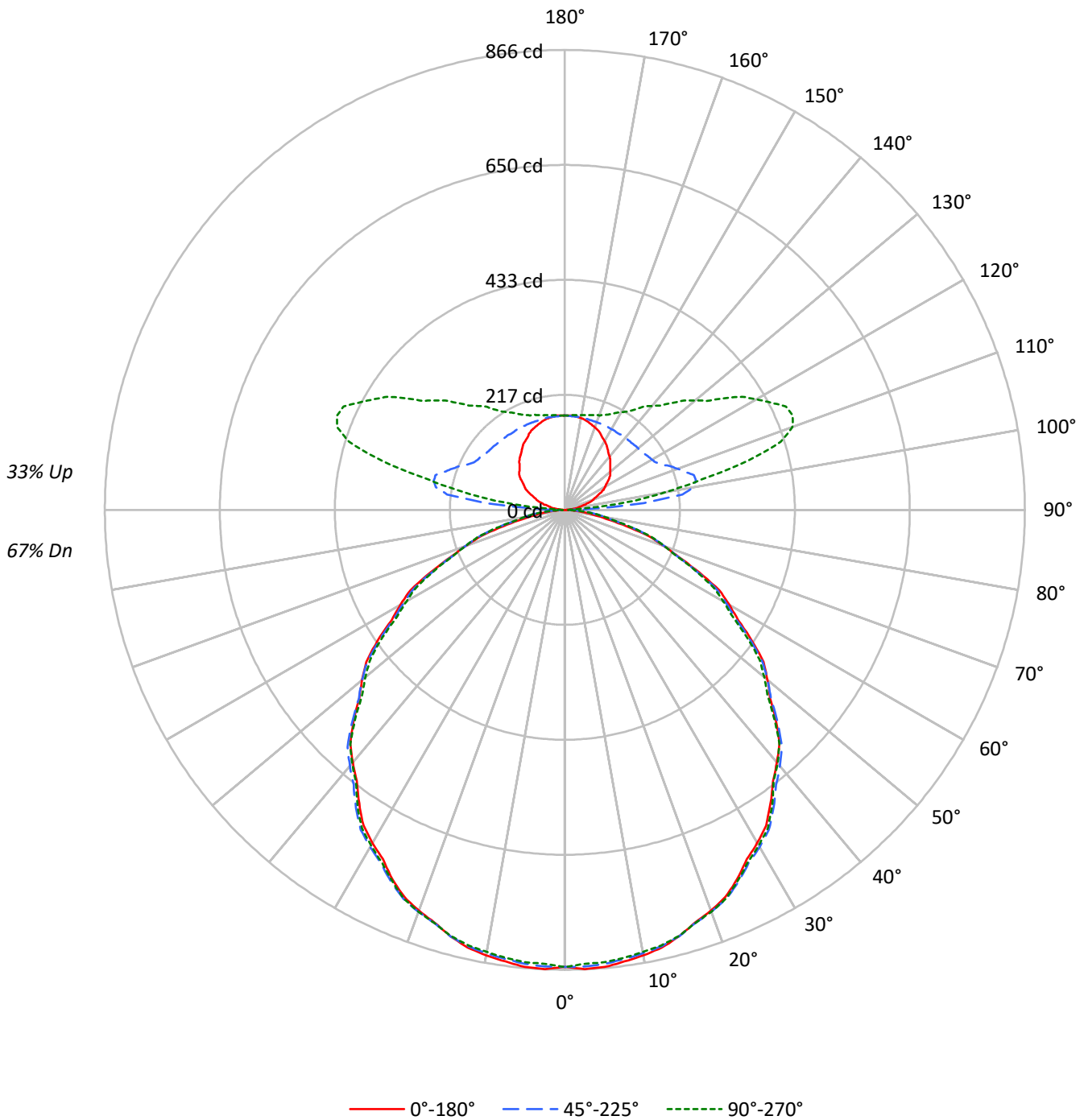
Lumens per Lamp: N/A
Luminaire Lumens: 3502.9 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

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°	5294	5294	5294
5°	5334	5299	5280
10°	5321	5296	5281
15°	5293	5293	5288
20°	5258	5274	5274
25°	5209	5246	5230
30°	5145	5207	5185
35°	5068	5146	5110
40°	4985	5055	5004
45°	4894	4929	4853
50°	4766	4766	4690
55°	4615	4555	4487
60°	4392	4304	4235
65°	4059	3979	3944
70°	3554	3582	3568
75°	2859	3163	3182
80°	2033	2681	2710
85°	1235	2251	2251



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.5	2.3
10°-20°	233.8	6.7
20°-30°	354.0	10.1
30°-40°	424.4	12.1
40°-50°	432.7	12.4
50°-60°	377.7	10.8
60°-70°	270.4	7.7
70°-80°	139.3	4.0
80°-90°	36.2	1.0
90°-100°	86.7	2.5
100°-110°	227.9	6.5
110°-120°	236.3	6.7
120°-130°	189.6	5.4
130°-140°	148.7	4.2
140°-150°	114.2	3.3
150°-160°	82.2	2.3
160°-170°	50.3	1.4
170°-180°	17.0	0.5
0°-30°	669.2	19.1
0°-40°	1093.6	31.2
0°-60°	1904.1	54.4
0°-90°	2350.0	67.1
90°-120°	551.0	15.7
90°-150°	1003.4	28.6
90°-180°	1153.0	32.9
0°-180°	3502.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	861	861	861	861	861	
5°	864	855	858	856	855	82
15°	831	824	831	831	830	234
25°	768	762	773	771	771	353
35°	675	674	685	681	681	422
45°	563	561	567	559	558	433
55°	430	425	425	418	418	384
65°	279	273	273	271	271	276
75°	120	126	133	134	134	130
85°	18	27	32	33	32	24
90°	1	3	9	5	5	2
95°	11	45	149	77	52	13
105°	41	62	252	382	357	43
115°	73	89	202	403	460	72
125°	102	114	184	310	366	90
135°	121	133	178	250	284	94
145°	140	149	176	214	230	88
155°	158	163	176	193	198	73
165°	171	173	176	182	185	48
175°	178	178	177	179	179	17
180°	178	178	178	178	178	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	860.7	860.7	860.7	860.7	860.7
2.5°	865.8	858.3	860.7	858.7	855.6
5°	863.9	855.3	858.3	855.9	855.1
7.5°	857.7	849.1	853.1	851.4	850.7
10°	851.9	843.4	848.0	846.3	845.6
12.5°	844.3	836.3	841.6	840.0	839.8
15°	831.2	824.2	831.2	831.2	830.4
17.5°	814.8	808.4	815.9	816.4	815.9
20°	803.3	796.3	805.7	804.9	805.7
22.5°	789.3	783.5	793.6	791.5	792.3
25°	767.5	762.0	773.0	770.6	770.6
27.5°	741.6	737.7	749.8	747.2	747.2
30°	724.4	720.5	733.2	730.0	730.0
32.5°	705.3	702.6	714.7	710.9	710.9
35°	675.0	673.5	685.4	680.6	680.6
37.5°	643.8	642.4	653.2	647.4	645.5
40°	620.8	620.0	629.6	623.2	623.2
42.5°	597.9	597.1	605.4	597.7	597.7
45°	562.6	561.1	566.6	559.4	557.9
47.5°	524.2	522.7	526.1	518.3	517.5
50°	498.1	496.5	498.1	490.9	490.1
52.5°	471.3	468.5	468.8	461.6	461.4
55°	430.4	424.9	424.8	418.4	418.4
57.5°	387.0	379.8	380.5	375.0	374.2
60°	357.0	349.2	349.9	345.1	344.3
62.5°	327.7	318.7	320.5	315.1	315.0
65°	278.9	272.7	273.4	271.0	271.0
67.5°	232.1	226.3	230.5	228.6	228.4
70°	197.6	193.7	199.2	199.2	198.4
72.5°	165.8	165.6	172.5	172.5	172.9
75°	120.3	125.8	133.1	133.9	133.9
77.5°	80.3	90.0	98.0	98.3	98.2
80°	57.4	68.3	75.7	77.3	76.5
82.5°	38.9	50.4	56.6	58.2	57.4
85°	17.5	26.9	31.9	32.7	31.9
87.5°	5.3	11.4	14.6	13.6	12.4
90°	1.1	3.4	9.1	4.6	4.6
92.5°	4.8	23.1	51.1	22.6	14.6
95°	11.4	44.9	149.4	77.0	52.5
97.5°	19.8	49.3	223.5	177.7	130.9
100°	26.2	53.0	246.3	249.6	193.8
102.5°	31.7	56.7	252.7	310.9	263.2
105°	41.0	62.2	252.0	382.5	356.9
107.5°	50.6	70.3	237.6	419.8	426.0
110°	57.0	74.9	225.8	429.3	456.1

TEST NUMBER: P562519

CATALOG NUMBER: SQ4-PC3-025U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	63.4	80.3	214.8	423.3	464.3
115°	73.0	88.6	201.8	402.7	459.5
117.5°	82.3	96.6	192.9	374.1	437.2
120°	87.8	101.2	189.3	354.9	416.2
122.5°	93.3	106.7	186.5	335.7	396.1
125°	101.5	113.7	183.6	310.3	366.0
127.5°	108.1	120.6	181.1	289.8	336.8
130°	111.7	125.1	180.2	276.9	320.4
132.5°	115.4	128.8	179.2	265.9	304.9
135°	120.9	133.1	177.9	250.5	283.9
137.5°	126.6	138.6	177.7	238.9	266.4
140°	131.1	142.3	176.7	229.8	255.4
142.5°	134.8	145.0	176.7	223.3	245.4
145°	140.3	149.2	175.6	213.6	230.3
147.5°	145.7	154.4	175.6	205.6	219.4
150°	149.4	157.2	175.6	200.9	212.1
152.5°	153.0	159.0	175.6	197.2	205.7
155°	158.5	163.0	175.6	192.8	198.4
157.5°	162.6	166.8	175.6	188.9	192.9
160°	165.3	168.7	175.6	187.1	189.3
162.5°	168.1	170.5	175.6	185.2	187.5
165°	171.0	173.3	175.6	182.5	184.7
167.5°	173.8	174.9	176.7	181.3	182.2
170°	175.6	176.7	176.7	181.3	181.3
172.5°	176.5	176.7	176.7	180.4	179.5
175°	177.9	177.9	176.7	179.0	179.0
177.5°	177.9	177.9	177.0	178.8	177.9
180°	177.9	177.9	177.9	177.9	177.9

(END OF REPORT)