

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: P562550

Luminaire Tested: **SQ4-PC3-025U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562550
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-075D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

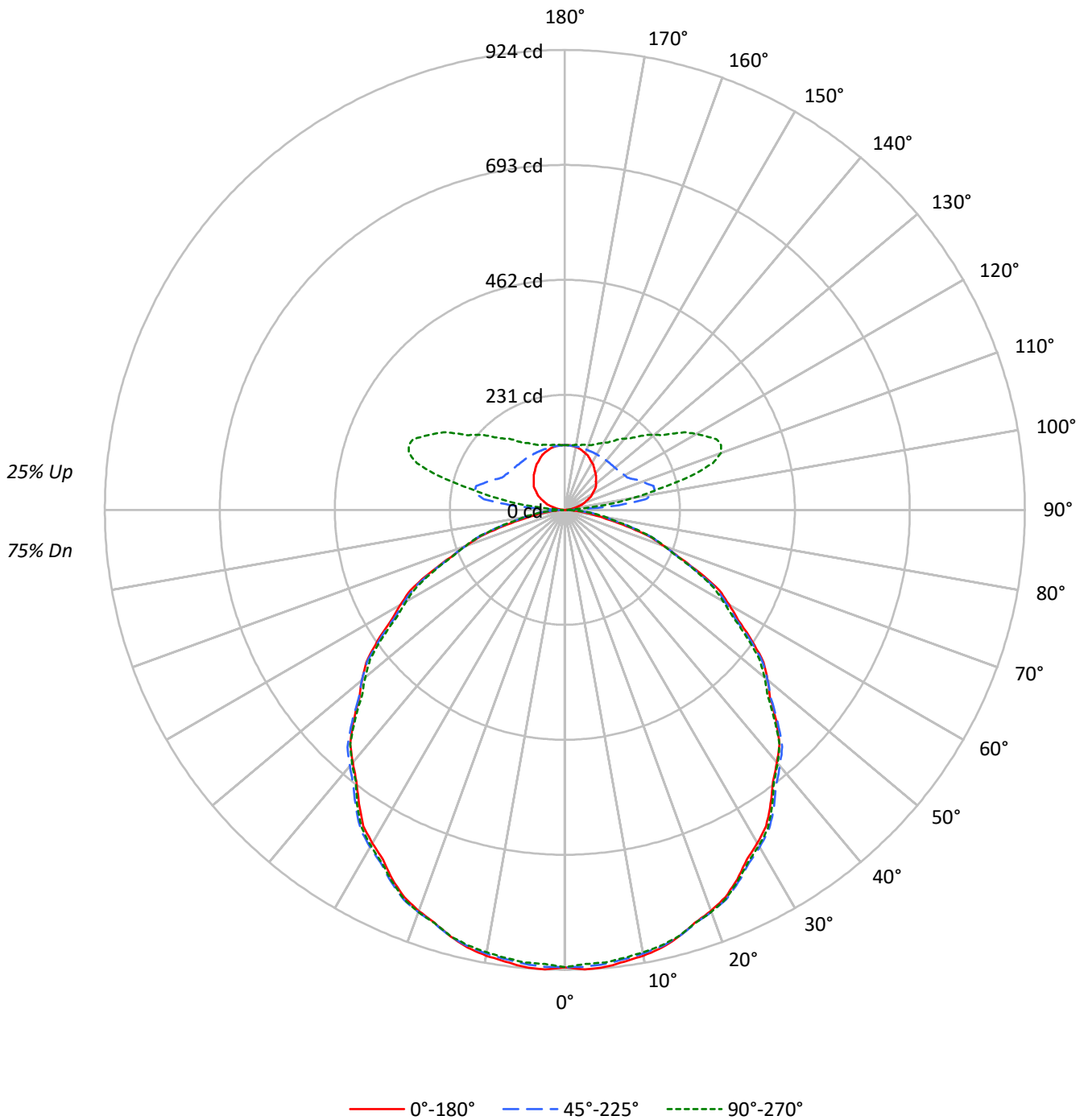
Lumens per Lamp: N/A
Luminaire Lumens: 3351.6 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 29.9
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	113	113	113	113	108	108	108	108	97	97	97	88	88	88	79	79	79	75
1	103	99	95	91	98	94	91	88	85	83	80	77	75	73	70	68	67	63
2	94	87	80	75	89	82	77	72	75	70	66	68	64	61	62	59	56	53
3	86	76	68	62	81	73	66	60	66	61	56	60	56	52	55	51	48	45
4	79	67	59	53	75	64	57	51	59	53	48	54	49	44	49	45	41	38
5	72	60	52	45	69	58	50	44	53	46	41	48	43	39	44	39	36	33
6	67	54	46	39	63	52	44	38	48	41	36	44	38	34	40	35	32	29
7	62	49	41	35	59	47	39	34	43	37	32	40	34	30	36	32	28	26
8	57	45	36	31	54	43	35	30	39	33	28	36	31	27	33	29	25	23
9	54	41	33	28	51	39	32	27	36	30	25	33	28	24	31	26	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	26	22	29	24	21	19

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	2.6
10°-20°	249.5	7.4
20°-30°	377.9	11.3
30°-40°	453.0	13.5
40°-50°	461.9	13.8
50°-60°	403.2	12.0
60°-70°	288.7	8.6
70°-80°	148.7	4.4
80°-90°	38.3	1.1
90°-100°	63.4	1.9
100°-110°	166.7	5.0
110°-120°	172.9	5.2
120°-130°	138.7	4.1
130°-140°	108.8	3.2
140°-150°	83.5	2.5
150°-160°	60.2	1.8
160°-170°	36.8	1.1
170°-180°	12.4	0.4
0°-30°	714.3	21.3
0°-40°	1167.3	34.8
0°-60°	2032.5	60.6
0°-90°	2508.1	74.8
90°-120°	403.0	12.0
90°-150°	734.0	21.9
90°-180°	843.0	25.2
0°-180°	3351.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	25
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	168	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	<i>918.8</i>	918.8	918.8	918.8	918.8
2.5°	<i>924.2</i>	<i>916.2</i>	<i>918.8</i>	<i>916.6</i>	<i>913.3</i>
5°	<i>922.2</i>	913.0	916.2	913.6	912.8
7.5°	<i>915.5</i>	906.4	910.6	908.9	908.0
10°	<i>909.4</i>	900.3	905.1	903.4	902.6
12.5°	<i>901.2</i>	892.8	898.3	896.6	896.5
15°	<i>887.3</i>	879.8	887.3	887.3	886.4
17.5°	<i>869.8</i>	862.9	870.9	871.4	870.9
20°	<i>857.5</i>	850.0	860.1	859.2	860.1
22.5°	<i>842.5</i>	836.4	847.1	844.9	845.8
25°	<i>819.2</i>	813.4	825.2	822.6	822.6
27.5°	<i>791.7</i>	787.5	800.3	797.6	797.6
30°	<i>773.3</i>	769.1	782.6	779.2	779.2
32.5°	<i>752.9</i>	750.0	762.9	758.8	758.8
35°	<i>720.5</i>	718.9	731.6	726.5	726.5
37.5°	<i>687.2</i>	685.7	697.2	691.1	689.1
40°	<i>662.7</i>	661.9	672.1	665.2	665.2
42.5°	<i>638.2</i>	637.4	646.2	638.0	638.0
45°	<i>600.6</i>	598.9	604.8	597.2	595.5
47.5°	<i>559.6</i>	557.9	561.6	553.3	552.4
50°	<i>531.7</i>	530.0	531.7	524.0	523.2
52.5°	<i>503.1</i>	500.1	500.4	492.7	492.6
55°	<i>459.4</i>	453.6	453.4	446.6	446.6
57.5°	<i>413.1</i>	405.4	406.1	400.3	399.5
60°	<i>381.1</i>	372.8	373.5	368.3	367.5
62.5°	<i>349.8</i>	340.2	342.2	336.4	336.2
65°	<i>297.7</i>	291.1	291.8	289.2	289.2
67.5°	<i>247.7</i>	241.6	246.0	244.0	243.8
70°	<i>211.0</i>	206.8	212.7	212.7	211.8
72.5°	<i>176.9</i>	176.8	184.1	184.1	184.6
75°	<i>128.5</i>	134.3	142.1	142.9	142.9
77.5°	<i>85.8</i>	96.1	104.6	105.0	104.8
80°	<i>61.3</i>	72.9	80.8	82.5	81.7
82.5°	<i>41.5</i>	53.8	60.4	62.1	61.3
85°	<i>18.7</i>	28.7	34.0	34.9	34.0
87.5°	<i>5.6</i>	11.9	14.9	14.2	12.9
90°	<i>0.8</i>	2.5	6.7	3.3	3.3
92.5°	<i>3.5</i>	16.9	37.4	16.5	10.7
95°	<i>8.3</i>	32.8	109.3	56.3	38.4
97.5°	<i>14.5</i>	36.0	163.5	130.0	95.8
100°	<i>19.2</i>	38.8	180.2	182.6	141.8
102.5°	<i>23.2</i>	41.5	184.8	227.4	192.5
105°	<i>30.0</i>	45.5	184.3	279.8	261.1
107.5°	<i>37.0</i>	51.4	173.8	307.1	311.6
110°	<i>41.7</i>	54.8	165.2	314.1	333.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.4	58.8	157.2	309.6	339.7
115°	53.4	64.8	147.6	294.6	336.2
117.5°	60.2	70.7	141.1	273.6	319.8
120°	64.2	74.0	138.5	259.6	304.5
122.5°	68.2	78.0	136.5	245.6	289.8
125°	74.2	83.2	134.3	227.0	267.8
127.5°	79.1	88.2	132.5	212.0	246.4
130°	81.7	91.5	131.8	202.6	234.4
132.5°	84.4	94.2	131.1	194.5	223.0
135°	88.4	97.4	130.1	183.2	207.7
137.5°	92.6	101.4	130.0	174.8	194.9
140°	95.9	104.1	129.3	168.1	186.8
142.5°	98.6	106.1	129.3	163.4	179.5
145°	102.6	109.1	128.5	156.3	168.5
147.5°	106.6	113.0	128.5	150.4	160.5
150°	109.3	115.0	128.5	147.0	155.1
152.5°	111.9	116.3	128.5	144.3	150.5
155°	115.9	119.2	128.5	141.1	145.1
157.5°	118.9	122.0	128.5	138.2	141.1
160°	120.9	123.4	128.5	136.8	138.5
162.5°	123.0	124.7	128.5	135.5	137.1
165°	125.1	126.8	128.5	133.5	135.1
167.5°	127.1	127.9	129.3	132.6	133.3
170°	128.5	129.3	129.3	132.6	132.6
172.5°	129.1	129.3	129.3	131.9	131.3
175°	130.1	130.1	129.3	131.0	131.0
177.5°	130.1	130.1	129.5	130.8	130.1
180°	130.1	130.1	130.1	130.1	130.1

(END OF REPORT)