

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: P562528

Luminaire Tested: **SQ4-PC3-025U-050D-940-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562528
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

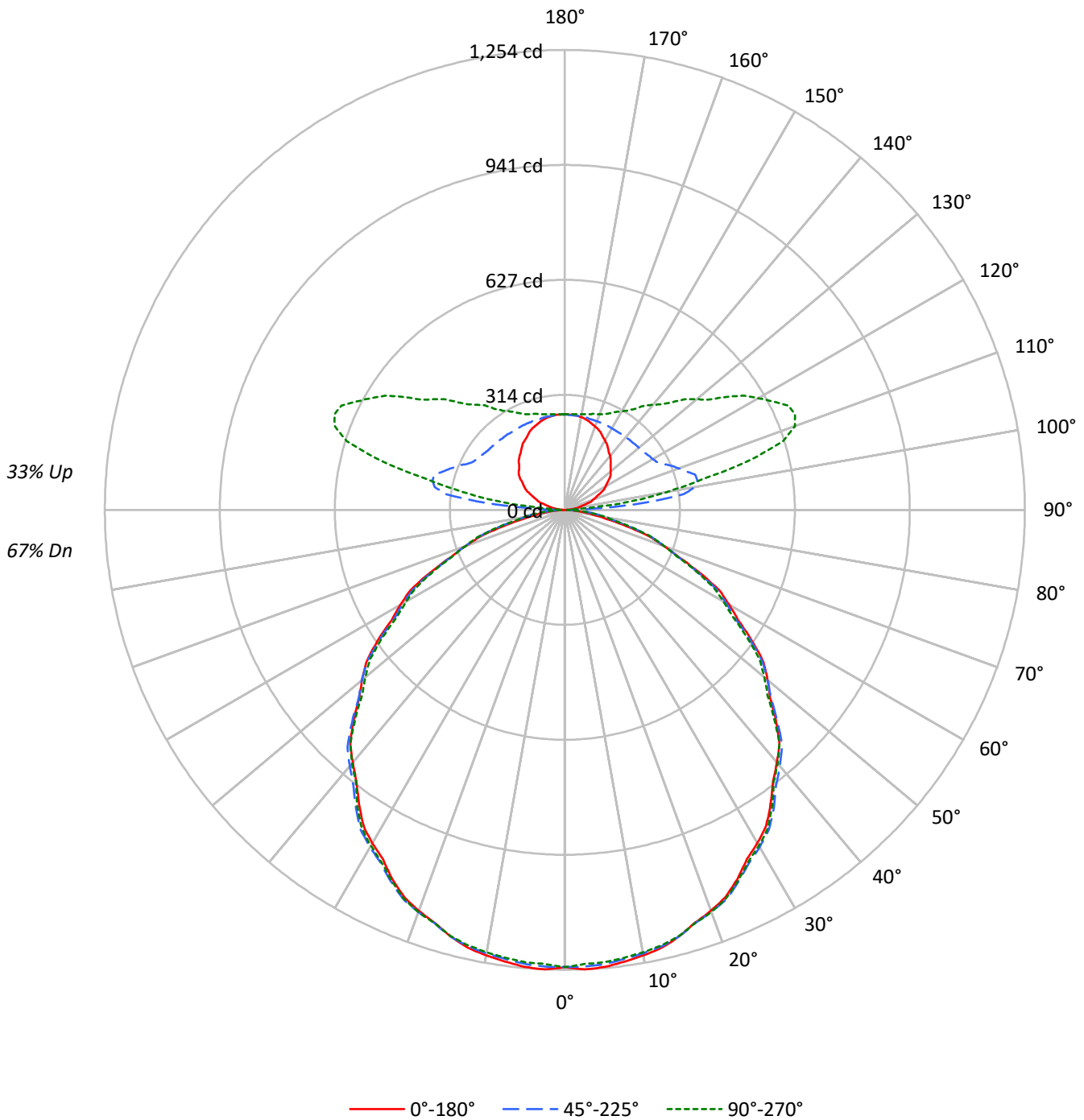
Lumens per Lamp: N/A
Luminaire Lumens: 5090.8 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 45.7
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	76	72	70	68	63	62	61	56
2	93	85	79	73	87	80	75	70	71	67	63	63	60	57	56	53	51	47
3	84	75	67	61	79	71	64	58	63	58	53	56	52	48	49	46	43	40
4	77	66	58	52	73	63	55	50	56	50	45	50	45	41	44	40	37	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	40	35	31	36	32	29	26
7	61	48	40	34	57	46	38	33	41	35	30	37	32	28	33	29	25	23
8	56	44	36	30	53	41	34	29	37	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	18
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°	5751	5751	5751
5°	5794	5757	5736
10°	5780	5753	5737
15°	5750	5750	5745
20°	5712	5729	5729
25°	5659	5699	5682
30°	5589	5657	5633
35°	5507	5591	5552
40°	5416	5492	5436
45°	5317	5355	5272
50°	5178	5178	5095
55°	5014	4949	4874
60°	4772	4676	4601
65°	4410	4321	4284
70°	3862	3893	3876
75°	3107	3436	3456
80°	2208	2914	2943
85°	1344	2445	2445



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.0	2.3
10°-20°	338.6	6.7
20°-30°	512.8	10.1
30°-40°	614.7	12.1
40°-50°	626.8	12.3
50°-60°	547.2	10.7
60°-70°	391.7	7.7
70°-80°	201.8	4.0
80°-90°	52.4	1.0
90°-100°	126.8	2.5
100°-110°	333.5	6.6
110°-120°	345.8	6.8
120°-130°	277.3	5.4
130°-140°	217.6	4.3
140°-150°	167.0	3.3
150°-160°	120.3	2.4
160°-170°	73.6	1.4
170°-180°	24.9	0.5
0°-30°	969.3	19.0
0°-40°	1584.1	31.1
0°-60°	2758.0	54.2
0°-90°	3403.9	66.9
90°-120°	806.1	15.8
90°-150°	1468.1	28.8
90°-180°	1687.0	33.1
0°-180°	5090.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1247	1247	1247	1247	1247	
5°	1251	1239	1243	1240	1239	119
15°	1204	1194	1204	1204	1203	339
25°	1112	1104	1120	1116	1116	512
35°	978	976	993	986	986	611
45°	815	813	821	810	808	627
55°	623	616	615	606	606	556
65°	404	395	396	392	392	400
75°	174	182	193	194	194	188
85°	25	39	46	47	46	35
90°	2	5	13	7	7	2
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	415	137
145°	205	218	257	312	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	



TEST NUMBER: P562528

CATALOG NUMBER: SQ4-PC3-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1246.7	1246.7	1246.7	1246.7	1246.7
2.5°	1254.1	1243.3	1246.7	1243.8	1239.3
5°	1251.3	1238.9	1243.3	1239.8	1238.6
7.5°	1242.3	1229.9	1235.6	1233.3	1232.2
10°	1234.0	1221.6	1228.2	1225.9	1224.8
12.5°	1222.9	1211.4	1219.0	1216.7	1216.5
15°	1204.0	1193.8	1204.0	1204.0	1202.9
17.5°	1180.2	1171.0	1181.8	1182.5	1181.8
20°	1163.6	1153.4	1167.1	1165.9	1167.1
22.5°	1143.3	1134.9	1149.5	1146.5	1147.7
25°	1111.7	1103.8	1119.7	1116.3	1116.3
27.5°	1074.3	1068.6	1086.0	1082.3	1082.3
30°	1049.3	1043.7	1062.0	1057.4	1057.4
32.5°	1021.6	1017.8	1035.2	1029.7	1029.7
35°	977.8	975.5	992.8	985.8	985.8
37.5°	932.5	930.5	946.1	937.7	935.0
40°	899.3	898.1	912.0	902.7	902.7
42.5°	866.0	864.9	876.9	865.8	865.8
45°	815.0	812.7	820.8	810.3	808.1
47.5°	759.3	757.1	762.1	750.8	749.6
50°	721.5	719.2	721.5	711.1	709.9
52.5°	682.7	678.6	679.0	668.6	668.4
55°	623.4	615.5	615.3	606.0	606.0
57.5°	560.6	550.2	551.1	543.2	542.1
60°	517.2	505.9	506.8	499.8	498.7
62.5°	474.7	461.6	464.3	456.4	456.2
65°	404.0	395.0	395.9	392.5	392.5
67.5°	336.2	327.8	333.8	331.1	330.8
70°	286.3	280.6	288.6	288.6	287.4
72.5°	240.1	239.9	249.8	249.8	250.5
75°	174.3	182.2	192.8	193.9	193.9
77.5°	116.4	130.4	142.0	142.4	142.2
80°	83.1	98.9	109.7	111.9	110.8
82.5°	56.3	73.0	82.0	84.2	83.1
85°	25.4	38.9	46.2	47.3	46.2
87.5°	7.7	16.5	21.1	19.8	18.0
90°	1.7	4.9	13.3	6.7	6.7
92.5°	7.0	33.8	74.7	33.1	21.4
95°	16.7	65.6	218.5	112.6	76.7
97.5°	29.0	72.1	327.0	260.0	191.5
100°	38.4	77.5	360.3	365.2	283.6
102.5°	46.4	82.9	369.7	454.9	385.0
105°	60.1	91.1	368.7	559.7	522.2
107.5°	74.1	102.8	347.7	614.1	623.3
110°	83.4	109.5	330.3	628.2	667.3

TEST NUMBER: P562528

CATALOG NUMBER: SQ4-PC3-025U-050D-940-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	92.8	117.6	314.3	619.3	679.3
115°	106.8	129.6	295.3	589.1	672.3
117.5°	120.4	141.3	282.3	547.3	639.6
120°	128.5	148.0	276.9	519.2	608.9
122.5°	136.5	156.0	272.9	491.1	579.6
125°	148.5	166.4	268.6	454.0	535.5
127.5°	158.2	176.4	264.9	424.0	492.8
130°	163.5	183.1	263.6	405.2	468.8
132.5°	168.8	188.4	262.3	389.0	446.1
135°	176.8	194.8	260.3	366.5	415.4
137.5°	185.2	202.8	259.9	349.6	389.7
140°	191.9	208.2	258.6	336.2	373.7
142.5°	197.2	212.2	258.6	326.7	359.0
145°	205.2	218.2	256.9	312.5	337.0
147.5°	213.2	225.9	256.9	300.7	321.0
150°	218.5	230.0	256.9	294.0	310.3
152.5°	223.9	232.7	256.9	288.6	301.0
155°	231.9	238.4	256.9	282.1	290.3
157.5°	237.9	244.1	256.9	276.4	282.3
160°	241.9	246.8	256.9	273.7	276.9
162.5°	245.9	249.5	256.9	271.0	274.3
165°	250.2	253.5	256.9	267.0	270.3
167.5°	254.2	255.9	258.6	265.3	266.6
170°	256.9	258.5	258.6	265.3	265.3
172.5°	258.2	258.6	258.6	263.9	262.6
175°	260.3	260.3	258.6	261.9	261.9
177.5°	260.3	260.3	258.9	261.6	260.3
180°	260.3	260.3	260.3	260.3	260.3

(END OF REPORT)