

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: P562624

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

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562624
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-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

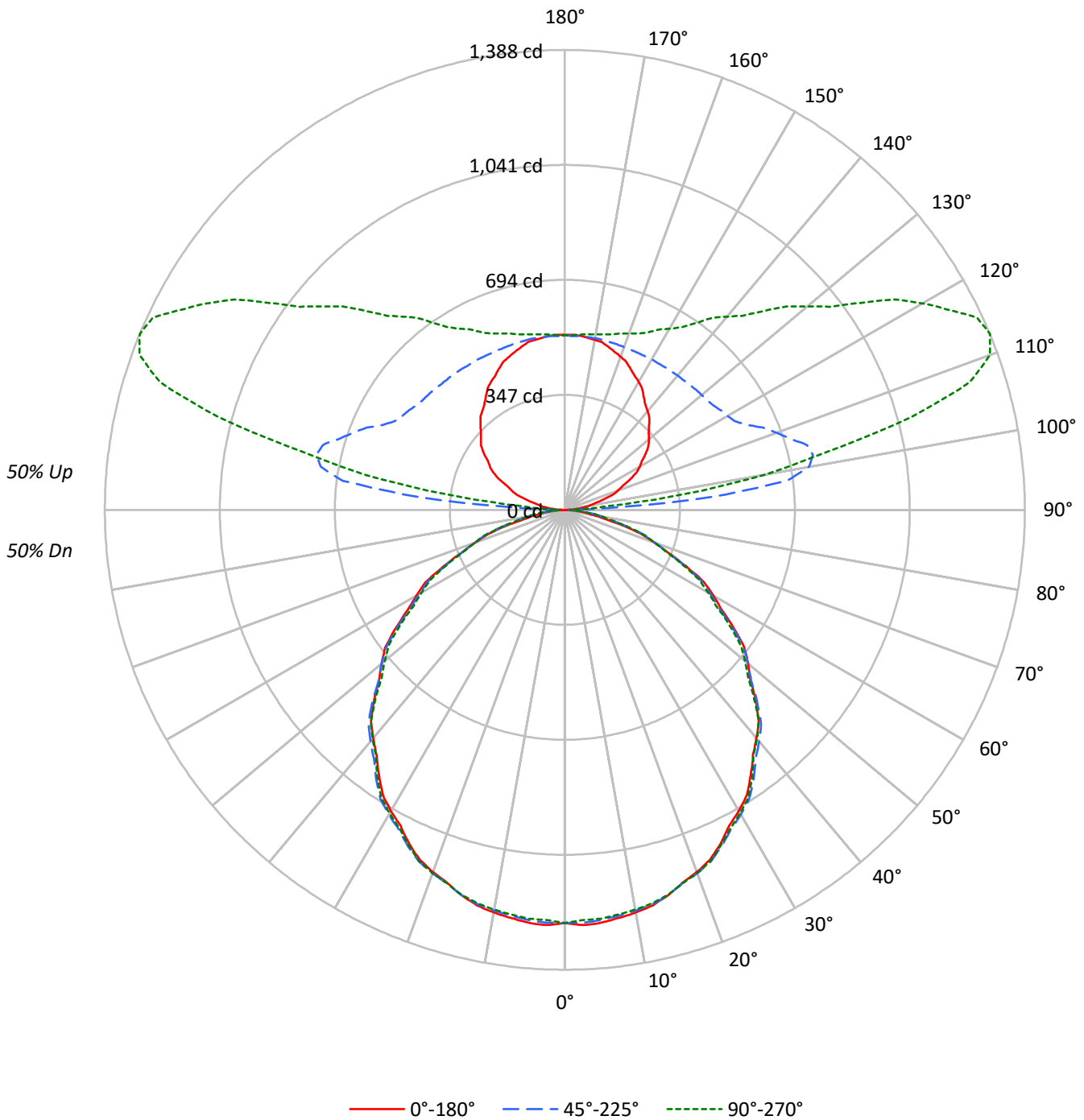
Lumens per Lamp: N/A
Luminaire Lumens: 6848.5 lumens
Efficiency: N/A
Efficacy: 116.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 58.9
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	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°	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	1.7
10°-20°	338.6	4.9
20°-30°	512.8	7.5
30°-40°	614.7	9.0
40°-50°	626.8	9.2
50°-60°	547.2	8.0
60°-70°	391.7	5.7
70°-80°	201.8	2.9
80°-90°	53.0	0.8
90°-100°	253.2	3.7
100°-110°	687.8	10.0
110°-120°	707.2	10.3
120°-130°	565.4	8.3
130°-140°	444.3	6.5
140°-150°	340.7	5.0
150°-160°	245.0	3.6
160°-170°	149.8	2.2
170°-180°	50.5	0.7
0°-30°	969.3	14.2
0°-40°	1584.1	23.1
0°-60°	2758.0	40.3
0°-90°	3404.5	49.7
90°-120°	1648.3	24.1
90°-150°	2998.6	43.8
90°-180°	3444.0	50.3
0°-180°	6848.5	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	7	12	15	15	4
95°	37	138	441	192	129	40
105°	122	190	756	1152	1084	130
115°	217	264	606	1205	1372	214
125°	298	340	548	923	1089	266
135°	360	399	532	752	848	278
145°	416	445	526	639	687	261
155°	470	486	522	574	590	217
165°	509	515	524	546	548	144
175°	528	529	526	532	531	50
180°	528	528	528	528	528	



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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	16.8	20.8	21.5	19.7
90°	1.7	6.7	11.9	15.3	15.3
92.5°	15.3	69.3	120.4	51.7	43.8
95°	37.3	138.5	441.0	191.9	128.9
97.5°	61.7	152.9	676.0	525.9	369.4
100°	78.0	162.6	747.9	758.2	612.3
102.5°	94.3	172.2	766.9	937.7	809.0
105°	122.1	190.1	756.4	1151.7	1083.8
107.5°	150.9	211.0	712.7	1262.3	1281.2
110°	171.3	226.0	680.1	1284.0	1365.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	188.9	241.0	647.5	1266.0	1388.4
115°	217.1	263.5	605.5	1204.6	1372.1
117.5°	243.5	288.0	578.7	1117.6	1306.3
120°	261.2	304.3	566.5	1059.2	1246.6
122.5°	276.1	319.2	558.3	1000.7	1181.4
125°	298.5	340.0	547.8	923.0	1088.8
127.5°	318.5	359.6	542.0	864.1	1006.4
130°	330.7	370.5	539.3	827.2	954.9
132.5°	342.9	382.7	536.6	795.6	908.7
135°	359.6	399.4	532.5	751.8	848.0
137.5°	377.5	413.7	530.5	713.1	794.1
140°	388.4	423.2	529.2	688.5	761.5
142.5°	399.2	431.4	527.8	669.3	730.3
145°	415.5	445.4	525.8	638.8	686.9
147.5°	433.8	459.4	524.1	614.8	652.6
150°	446.1	467.6	524.1	601.1	630.9
152.5°	455.6	474.5	522.7	588.7	613.3
155°	469.8	486.4	522.4	573.6	590.2
157.5°	483.7	496.6	522.4	563.4	576.0
160°	491.8	503.5	522.4	556.5	566.5
162.5°	500.0	508.9	523.7	551.0	558.3
165°	508.8	515.4	524.1	546.2	547.8
167.5°	518.0	521.3	525.8	540.4	541.7
170°	520.7	524.0	525.8	537.6	537.6
172.5°	523.4	525.4	525.8	534.9	534.9
175°	527.5	529.1	525.8	532.5	530.9
177.5°	528.8	528.8	524.7	530.1	527.5
180°	527.5	527.5	527.5	527.5	527.5

(END OF REPORT)