

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: P563094

Luminaire Tested: **SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563094
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PC3-150U-050D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

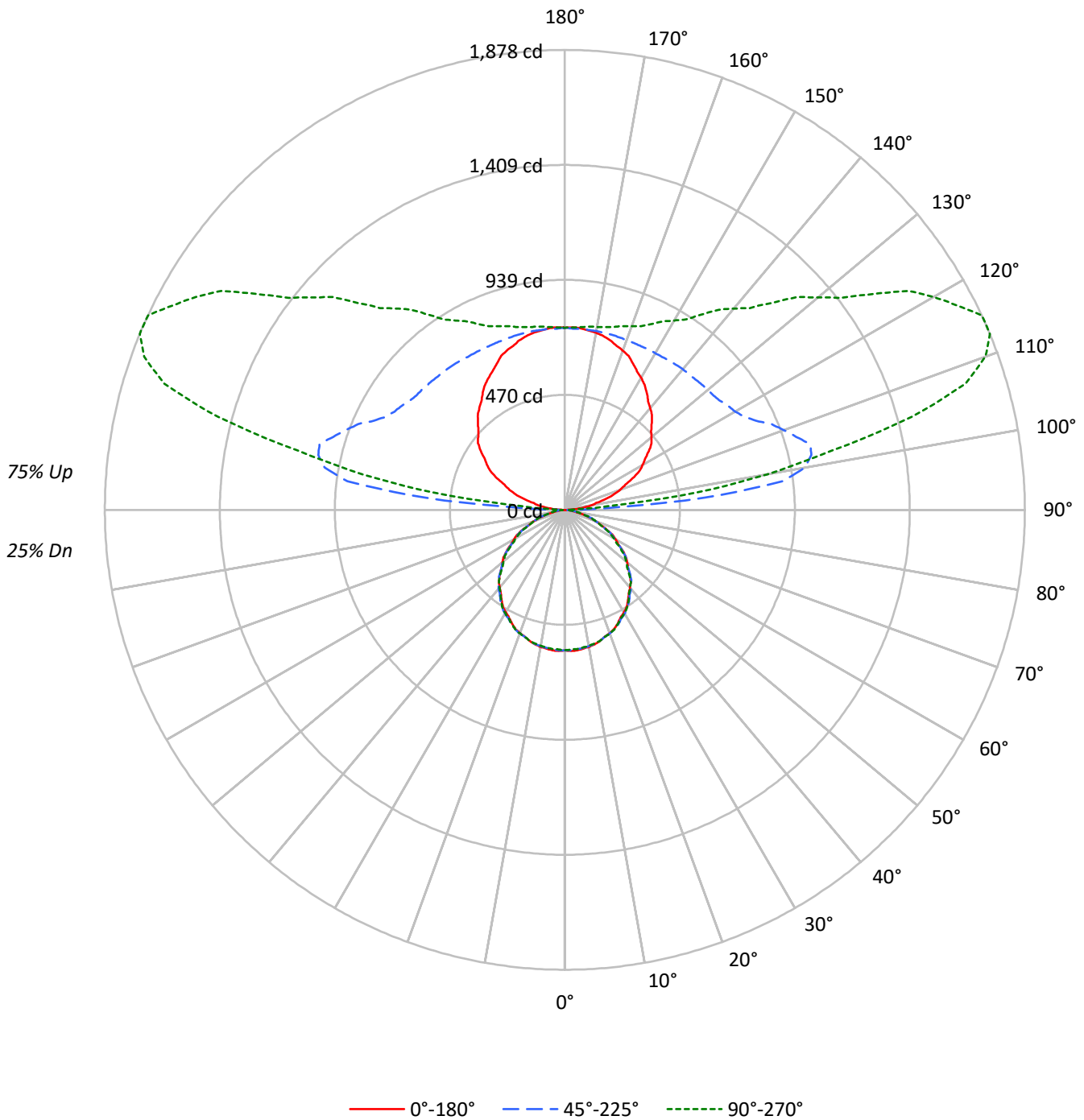
Lumens per Lamp: N/A
Luminaire Lumens: 6361.1 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 55.7
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



TEST NUMBER: P563094
CATALOG NUMBER: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P563094

CATALOG NUMBER: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4

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	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25
1	92	88	84	81	82	78	75	73	61	59	57	44	43	42	29	28	28	21
2	84	77	71	66	74	69	64	59	53	50	47	39	37	35	26	24	23	17
3	76	67	60	55	68	60	54	50	47	43	39	34	32	29	23	21	20	15
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	20	18	17	13
5	64	53	45	39	57	47	41	36	37	32	29	27	24	22	18	16	15	11
6	59	47	39	34	52	42	36	31	33	28	25	24	21	19	16	14	13	10
7	54	42	35	29	48	38	31	27	30	25	22	22	19	16	15	13	11	8
8	50	38	31	26	44	34	28	24	27	22	19	20	17	15	14	12	10	8
9	47	35	28	23	41	31	25	21	25	20	17	18	15	13	13	11	9	7
10	43	32	25	20	39	29	23	19	23	18	15	17	14	12	12	10	8	6

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



TEST NUMBER: P563094

CATALOG NUMBER: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	0.9
10°-20°	155.8	2.4
20°-30°	236.0	3.7
30°-40°	282.9	4.4
40°-50°	288.5	4.5
50°-60°	251.8	4.0
60°-70°	180.3	2.8
70°-80°	92.9	1.5
80°-90°	25.0	0.4
90°-100°	345.5	5.4
100°-110°	934.2	14.7
110°-120°	982.2	15.4
120°-130°	797.8	12.5
130°-140°	625.8	9.8
140°-150°	480.3	7.6
150°-160°	345.4	5.4
160°-170°	211.0	3.3
170°-180°	71.1	1.1
0°-30°	446.1	7.0
0°-40°	729.1	11.5
0°-60°	1269.4	20.0
0°-90°	1567.6	24.6
90°-120°	2262.0	35.6
90°-150°	4166.0	65.5
90°-180°	4794.0	75.4
0°-180°	6361.1	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°	2	5	10	11	10	4
95°	54	188	575	297	177	56
105°	174	268	1036	1529	1466	183
115°	306	374	860	1664	1878	302
125°	419	480	775	1307	1536	373
135°	502	561	754	1056	1195	388
145°	583	627	744	904	972	365
155°	659	684	737	810	837	304
165°	717	724	740	769	773	202
175°	744	744	741	751	749	71
180°	744	744	744	744	744	

TEST NUMBER: P563094

CATALOG NUMBER: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4

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°	3.7	8.1	10.6	10.7	9.7
90°	1.6	4.7	10.4	11.2	10.4
92.5°	22.7	82.8	163.4	70.9	51.4
95°	53.6	188.2	574.6	297.4	176.9
97.5°	86.1	215.9	895.7	741.3	544.4
100°	110.4	227.0	995.6	1038.3	839.5
102.5°	132.9	242.6	1030.8	1263.5	1114.8
105°	173.7	268.4	1036.4	1528.8	1466.2
107.5°	211.4	297.8	991.1	1694.3	1715.1
110°	240.9	319.1	950.8	1738.7	1827.1



TEST NUMBER: P563094

CATALOG NUMBER: SQ4-PC3-150U-050D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	267.1	340.4	913.6	1729.8	1878.3
115°	305.7	373.8	859.5	1663.9	1878.3
117.5°	343.5	407.4	823.8	1563.3	1806.3
120°	366.5	429.1	802.7	1491.0	1739.1
122.5°	388.3	449.7	789.9	1413.6	1663.5
125°	418.6	479.6	774.7	1307.3	1535.8
127.5°	446.4	506.4	765.7	1220.6	1421.5
130°	461.8	523.6	761.9	1167.0	1348.5
132.5°	477.8	539.0	758.1	1118.6	1285.8
135°	501.8	561.3	753.9	1055.6	1194.9
137.5°	526.0	582.2	750.4	1004.4	1117.9
140°	542.6	595.0	749.1	971.5	1072.4
142.5°	558.6	607.9	746.5	941.7	1030.2
145°	583.4	627.3	743.5	903.5	972.4
147.5°	606.0	644.8	740.0	868.9	921.8
150°	622.6	657.1	738.7	850.1	892.4
152.5°	638.0	668.1	738.1	832.6	867.4
155°	658.7	684.5	737.1	810.5	837.1
157.5°	680.1	698.1	737.3	795.1	812.6
160°	692.3	707.1	737.9	785.4	797.9
162.5°	701.9	714.2	738.5	777.6	787.0
165°	717.1	724.1	740.3	769.2	773.1
167.5°	727.5	732.3	740.5	761.9	763.8
170°	733.9	736.2	741.1	758.7	758.7
172.5°	739.0	739.5	741.1	754.8	754.2
175°	744.3	743.5	741.1	750.7	749.1
177.5°	746.1	744.2	740.9	747.3	745.4
180°	743.5	743.5	743.5	743.5	743.5

(END OF REPORT)