

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: P563142

Luminaire Tested: **SQ4-PC3-150U-100D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563142
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-100D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

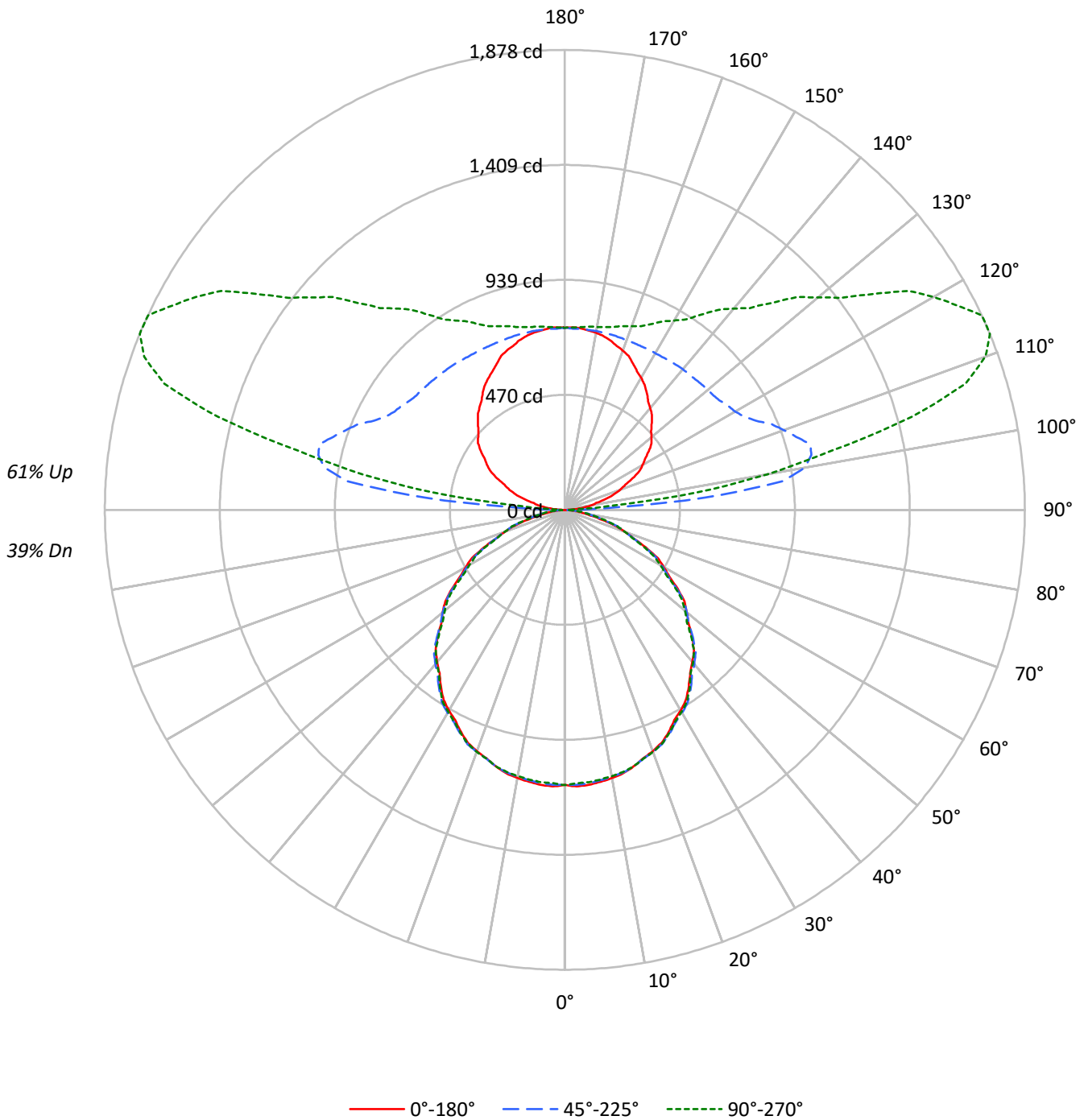
Lumens per Lamp: N/A
Luminaire Lumens: 7861.9 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	105	105	105	105	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	87	84	87	83	80	77	68	65	63	54	52	51	41	40	39	33
2	87	80	74	69	79	73	67	63	59	56	52	47	45	42	36	34	33	28
3	79	70	63	57	72	64	58	53	52	48	44	42	38	36	32	30	28	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	31	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	31	25	22	25	21	18	19	17	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10367	10367	10367
5°	10446	10378	10339
10°	10421	10372	10342
15°	10365	10365	10356
20°	10297	10328	10328
25°	10200	10275	10242
30°	10076	10198	10154
35°	9926	10078	10008
40°	9762	9900	9799
45°	9585	9653	9503
50°	9334	9334	9185
55°	9038	8921	8786
60°	8601	8429	8294
65°	7951	7792	7724
70°	6960	7016	6989
75°	5600	6196	6231
80°	3980	5249	5308
85°	2424	4404	4404



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.4
10°-20°	305.2	3.9
20°-30°	462.2	5.9
30°-40°	554.1	7.0
40°-50°	565.0	7.2
50°-60°	493.2	6.3
60°-70°	353.1	4.5
70°-80°	181.9	2.3
80°-90°	47.5	0.6
90°-100°	345.5	4.4
100°-110°	934.2	11.9
110°-120°	982.2	12.5
120°-130°	797.8	10.1
130°-140°	625.8	8.0
140°-150°	480.3	6.1
150°-160°	345.4	4.4
160°-170°	211.0	2.7
170°-180°	71.1	0.9
0°-30°	873.7	11.1
0°-40°	1427.8	18.2
0°-60°	2485.9	31.6
0°-90°	3068.4	39.0
90°-120°	2262.0	28.8
90°-150°	4166.0	53.0
90°-180°	4794.0	61.0
0°-180°	7861.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1124	1124	1124	1124	1124	
5°	1128	1117	1121	1117	1116	107
15°	1085	1076	1085	1085	1084	306
25°	1002	995	1009	1006	1006	461
35°	881	879	895	889	889	551
45°	735	732	740	730	728	565
55°	562	555	555	546	546	501
65°	364	356	357	354	354	360
75°	157	164	174	175	175	170
85°	23	35	42	43	42	31
90°	2	5	10	11	10	5
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: P563142

CATALOG NUMBER: SQ4-PC3-150U-100D-930-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1123.7	1123.7	1123.7	1123.7	1123.7
2.5°	1130.4	1120.6	1123.7	1121.1	1117.0
5°	1127.9	1116.7	1120.6	1117.4	1116.4
7.5°	1119.8	1108.6	1113.7	1111.6	1110.6
10°	1112.3	1101.1	1107.1	1105.0	1103.9
12.5°	1102.3	1091.9	1098.7	1096.7	1096.4
15°	1085.2	1076.1	1085.2	1085.2	1084.2
17.5°	1063.8	1055.4	1065.2	1065.8	1065.2
20°	1048.8	1039.6	1051.9	1050.9	1051.9
22.5°	1030.5	1023.0	1036.1	1033.4	1034.4
25°	1002.0	994.9	1009.3	1006.1	1006.1
27.5°	968.3	963.2	978.9	975.5	975.5
30°	945.8	940.7	957.2	953.1	953.1
32.5°	920.8	917.4	933.1	928.1	928.1
35°	881.3	879.2	894.8	888.6	888.6
37.5°	840.5	838.7	852.8	845.2	842.8
40°	810.5	809.5	822.0	813.6	813.6
42.5°	780.6	779.5	790.3	780.4	780.4
45°	734.6	732.5	739.8	730.4	728.3
47.5°	684.4	682.4	686.9	676.7	675.7
50°	650.3	648.3	650.3	640.9	639.9
52.5°	615.3	611.7	612.0	602.6	602.4
55°	561.9	554.7	554.6	546.2	546.2
57.5°	505.3	495.9	496.7	489.6	488.6
60°	466.1	456.0	456.8	450.5	449.5
62.5°	427.8	416.0	418.5	411.4	411.2
65°	364.2	356.0	356.9	353.8	353.8
67.5°	303.0	295.5	300.9	298.4	298.2
70°	258.0	252.9	260.1	260.1	259.1
72.5°	216.4	216.2	225.2	225.2	225.8
75°	157.1	164.2	173.8	174.8	174.8
77.5°	104.9	117.5	128.0	128.4	128.2
80°	74.9	89.2	98.8	100.9	99.9
82.5°	50.8	65.8	73.9	75.9	74.9
85°	22.9	35.1	41.6	42.6	41.6
87.5°	7.0	14.9	18.7	18.8	17.1
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: P563142

CATALOG NUMBER: SQ4-PC3-150U-100D-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)