

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: P563118

Luminaire Tested: **SQ4-PC3-150U-075D-930-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563118  
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-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

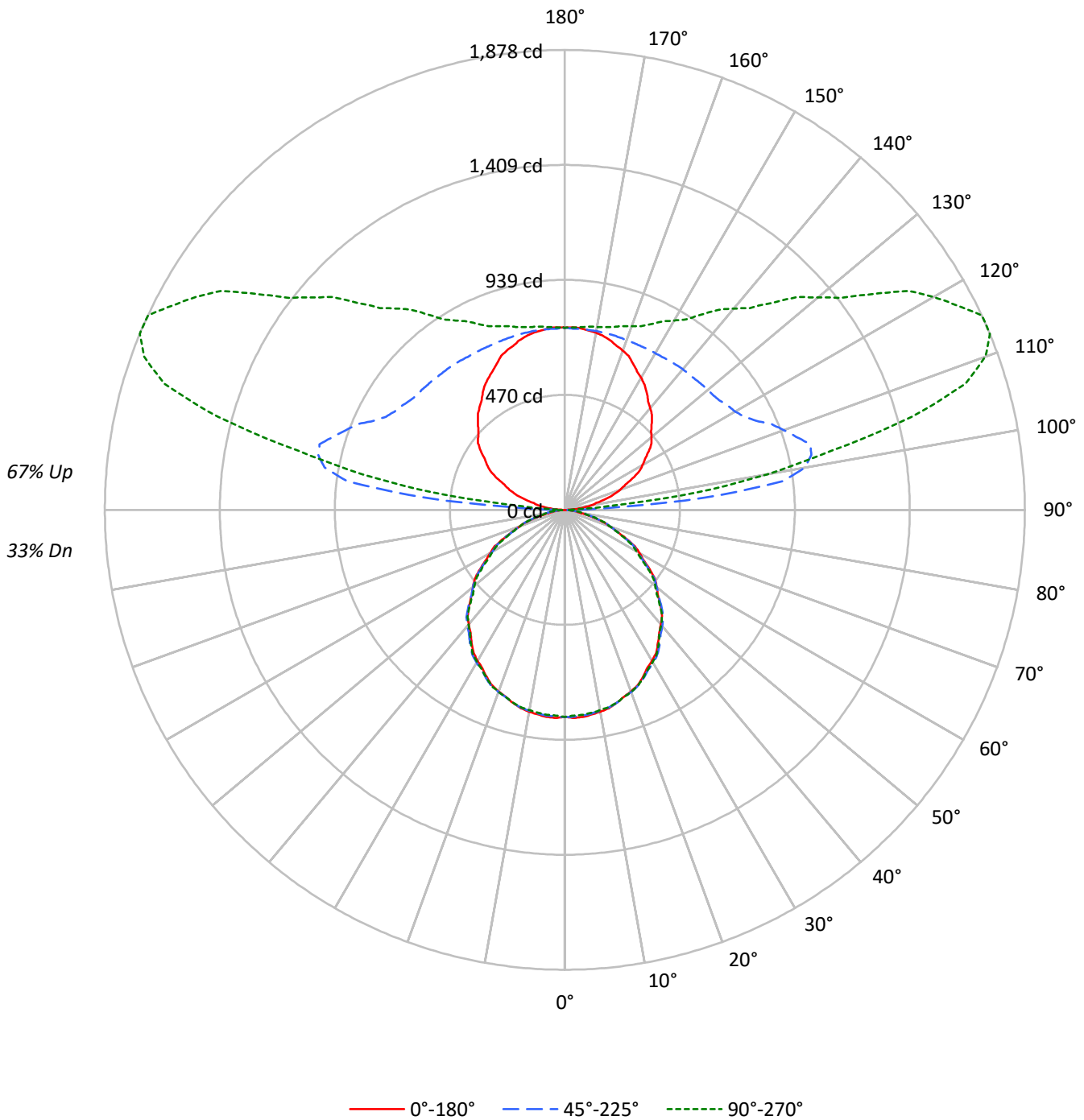
Lumens per Lamp: N/A  
Luminaire Lumens: 7103.2 lumens  
Efficiency: N/A  
Efficacy: 111.9 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 63.5  
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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33
1	94	90	86	83	84	81	78	75	64	62	60	49	48	47	35	35	34	27
2	85	78	72	67	77	71	66	61	56	53	50	43	41	39	31	30	29	23
3	78	69	62	56	70	62	56	51	50	45	42	38	35	33	28	26	24	19
4	71	61	53	47	64	55	48	43	44	39	36	34	31	28	25	23	21	17
5	65	54	46	40	58	49	42	37	39	34	31	30	27	24	22	20	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	18	16	13
7	55	43	36	30	50	39	33	28	32	27	23	25	21	19	18	16	14	11
8	51	39	32	27	46	36	29	25	29	24	20	23	19	16	17	14	13	10
9	48	36	28	24	43	33	26	22	26	22	18	21	17	15	15	13	11	9
10	44	33	26	21	40	30	24	19	24	20	16	19	16	13	14	12	10	8

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	7803	7803	7803
5°	7862	7811	7781
10°	7842	7806	7783
15°	7801	7801	7794
20°	7750	7773	7773
25°	7677	7733	7708
30°	7583	7675	7642
35°	7471	7585	7532
40°	7347	7450	7376
45°	7213	7265	7153
50°	7025	7025	6913
55°	6803	6714	6613
60°	6473	6344	6242
65°	5984	5864	5811
70°	5239	5282	5260
75°	4214	4663	4691
80°	2997	3953	3995
85°	1821	3313	3313



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.0	1.1
10°-20°	229.7	3.2
20°-30°	347.8	4.9
30°-40°	417.0	5.9
40°-50°	425.2	6.0
50°-60°	371.2	5.2
60°-70°	265.7	3.7
70°-80°	136.9	1.9
80°-90°	36.1	0.5
90°-100°	345.5	4.9
100°-110°	934.2	13.2
110°-120°	982.2	13.8
120°-130°	797.8	11.2
130°-140°	625.8	8.8
140°-150°	480.3	6.8
150°-160°	345.4	4.9
160°-170°	211.0	3.0
170°-180°	71.1	1.0
0°-30°	657.6	9.3
0°-40°	1074.5	15.1
0°-60°	1870.9	26.3
0°-90°	2309.7	32.5
90°-120°	2262.0	31.8
90°-150°	4166.0	58.6
90°-180°	4794.0	67.5
0°-180°	7103.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	846	846	846	846	846	
5°	849	840	843	841	840	81
15°	817	810	817	817	816	230
25°	754	749	760	757	757	347
35°	663	662	673	669	669	415
45°	553	551	557	550	548	426
55°	423	418	417	411	411	377
65°	274	268	269	266	266	271
75°	118	124	131	132	132	128
85°	17	26	31	32	31	23
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	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	845.7	845.7	845.7	845.7	845.7
2.5°	850.7	843.4	845.7	843.8	840.7
5°	848.9	840.4	843.4	841.0	840.2
7.5°	842.7	834.3	838.2	836.6	835.9
10°	837.1	828.7	833.2	831.6	830.8
12.5°	829.6	821.8	826.9	825.4	825.2
15°	816.7	809.9	816.7	816.7	816.0
17.5°	800.6	794.3	801.7	802.2	801.7
20°	789.3	782.4	791.7	790.9	791.7
22.5°	775.6	769.9	779.8	777.8	778.5
25°	754.1	748.7	759.6	757.2	757.2
27.5°	728.7	724.9	736.7	734.2	734.2
30°	711.8	708.0	720.4	717.3	717.3
32.5°	693.0	690.4	702.3	698.5	698.5
35°	663.3	661.7	673.4	668.7	668.7
37.5°	632.6	631.2	641.8	636.1	634.3
40°	610.0	609.2	618.6	612.4	612.4
42.5°	587.5	586.7	594.8	587.3	587.3
45°	552.8	551.3	556.8	549.7	548.2
47.5°	515.1	513.6	517.0	509.3	508.5
50°	489.4	487.9	489.4	482.4	481.6
52.5°	463.1	460.4	460.6	453.6	453.4
55°	422.9	417.5	417.4	411.1	411.1
57.5°	380.3	373.2	373.8	368.5	367.7
60°	350.8	343.2	343.8	339.1	338.3
62.5°	322.0	313.1	315.0	309.6	309.5
65°	274.1	267.9	268.6	266.2	266.2
67.5°	228.0	222.4	226.5	224.6	224.4
70°	194.2	190.4	195.8	195.8	195.0
72.5°	162.9	162.7	169.5	169.5	169.9
75°	118.2	123.6	130.8	131.6	131.6
77.5°	78.9	88.4	96.3	96.6	96.5
80°	56.4	67.1	74.4	75.9	75.2
82.5°	38.2	49.5	55.6	57.1	56.4
85°	17.2	26.4	31.3	32.1	31.3
87.5°	5.3	11.5	14.6	14.7	13.4
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

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**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)