

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: P563126

Luminaire Tested: **SQ4-PC3-150U-075D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563126
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-940-1D-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: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

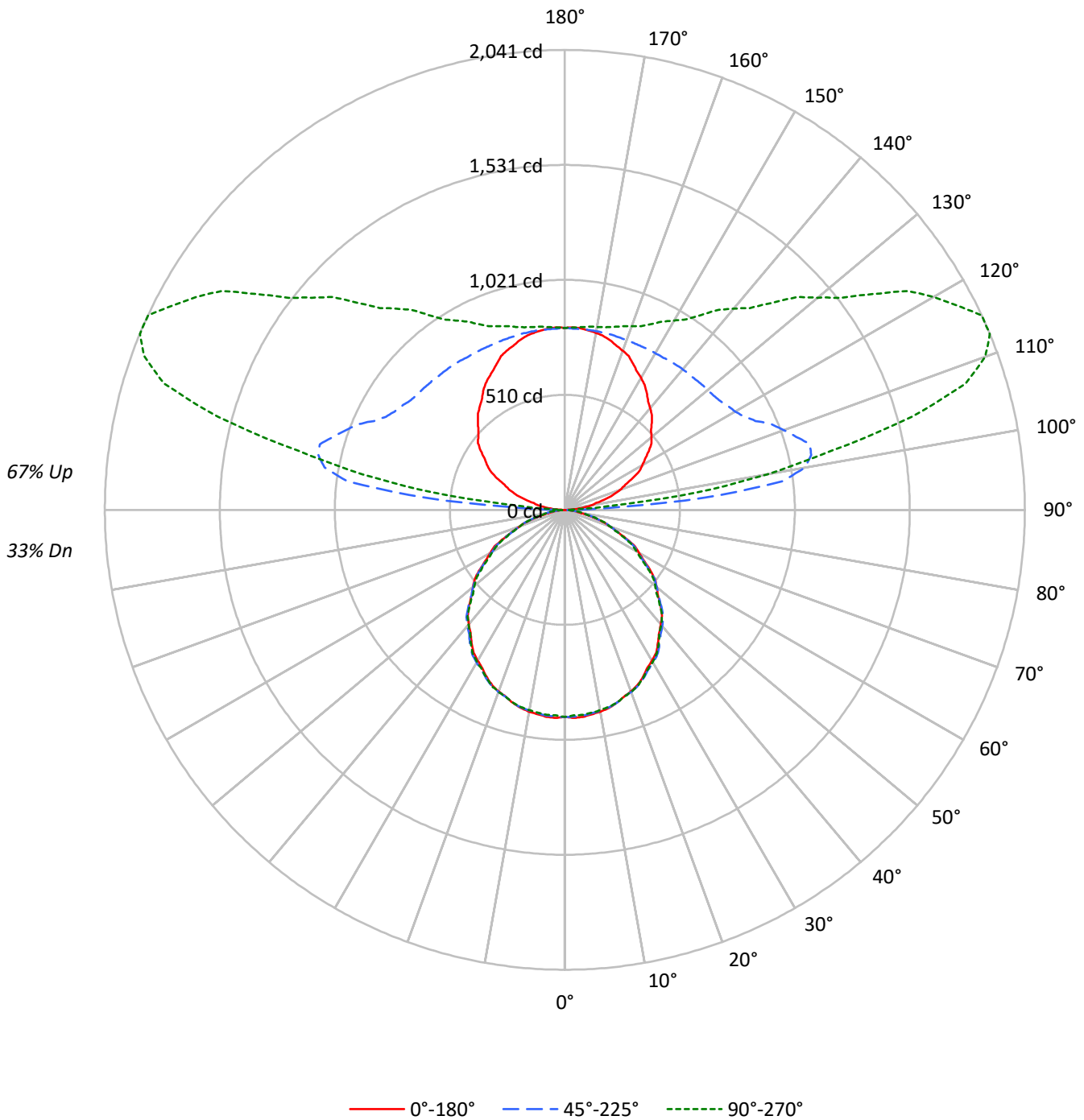
Lumens per Lamp: N/A
Luminaire Lumens: 7716.7 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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°	8477	8477	8477
5°	8541	8485	8454
10°	8520	8479	8456
15°	8475	8475	8467
20°	8419	8445	8445
25°	8339	8401	8374
30°	8238	8337	8301
35°	8115	8240	8183
40°	7982	8095	8012
45°	7837	7891	7770
50°	7632	7632	7510
55°	7390	7293	7184
60°	7032	6892	6781
65°	6499	6370	6314
70°	5692	5738	5713
75°	4581	5065	5094
80°	3257	4293	4341
85°	1980	3599	3599



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.1
10°-20°	249.5	3.2
20°-30°	377.9	4.9
30°-40°	453.0	5.9
40°-50°	461.9	6.0
50°-60°	403.2	5.2
60°-70°	288.7	3.7
70°-80°	148.7	1.9
80°-90°	39.3	0.5
90°-100°	375.4	4.9
100°-110°	1014.9	13.2
110°-120°	1067.1	13.8
120°-130°	866.7	11.2
130°-140°	679.9	8.8
140°-150°	521.8	6.8
150°-160°	375.3	4.9
160°-170°	229.3	3.0
170°-180°	77.3	1.0
0°-30°	714.3	9.3
0°-40°	1167.3	15.1
0°-60°	2032.5	26.3
0°-90°	2509.1	32.5
90°-120°	2457.4	31.8
90°-150°	4525.8	58.6
90°-180°	5208.0	67.5
0°-180°	7716.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	919	919	919	919	919	
5°	922	913	916	914	913	88
15°	887	880	887	887	886	250
25°	819	813	825	823	823	377
35°	720	719	732	726	726	451
45°	601	599	605	597	596	462
55°	459	454	453	447	447	410
65°	298	291	292	289	289	294
75°	128	134	142	143	143	139
85°	19	29	34	35	34	25
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	918.8	918.8	918.8	918.8	918.8
2.5°	924.2	916.2	918.8	916.6	913.3
5°	922.2	913.0	916.2	913.6	912.8
7.5°	915.5	906.4	910.6	908.9	908.0
10°	909.4	900.3	905.1	903.4	902.6
12.5°	901.2	892.8	898.3	896.6	896.5
15°	887.3	879.8	887.3	887.3	886.4
17.5°	869.8	862.9	870.9	871.4	870.9
20°	857.5	850.0	860.1	859.2	860.1
22.5°	842.5	836.4	847.1	844.9	845.8
25°	819.2	813.4	825.2	822.6	822.6
27.5°	791.7	787.5	800.3	797.6	797.6
30°	773.3	769.1	782.6	779.2	779.2
32.5°	752.9	750.0	762.9	758.8	758.8
35°	720.5	718.9	731.6	726.5	726.5
37.5°	687.2	685.7	697.2	691.1	689.1
40°	662.7	661.9	672.1	665.2	665.2
42.5°	638.2	637.4	646.2	638.0	638.0
45°	600.6	598.9	604.8	597.2	595.5
47.5°	559.6	557.9	561.6	553.3	552.4
50°	531.7	530.0	531.7	524.0	523.2
52.5°	503.1	500.1	500.4	492.7	492.6
55°	459.4	453.6	453.4	446.6	446.6
57.5°	413.1	405.4	406.1	400.3	399.5
60°	381.1	372.8	373.5	368.3	367.5
62.5°	349.8	340.2	342.2	336.4	336.2
65°	297.7	291.1	291.8	289.2	289.2
67.5°	247.7	241.6	246.0	244.0	243.8
70°	211.0	206.8	212.7	212.7	211.8
72.5°	176.9	176.8	184.1	184.1	184.6
75°	128.5	134.3	142.1	142.9	142.9
77.5°	85.8	96.1	104.6	105.0	104.8
80°	61.3	72.9	80.8	82.5	81.7
82.5°	41.5	53.8	60.4	62.1	61.3
85°	18.7	28.7	34.0	34.9	34.0
87.5°	5.8	12.5	15.9	16.0	14.5
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)