

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: P561652

Luminaire Tested: **SQ4-PC3-100U-100D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561652
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PC3-100U-100D-92765-1D-UNV-STD-W-4 (5000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

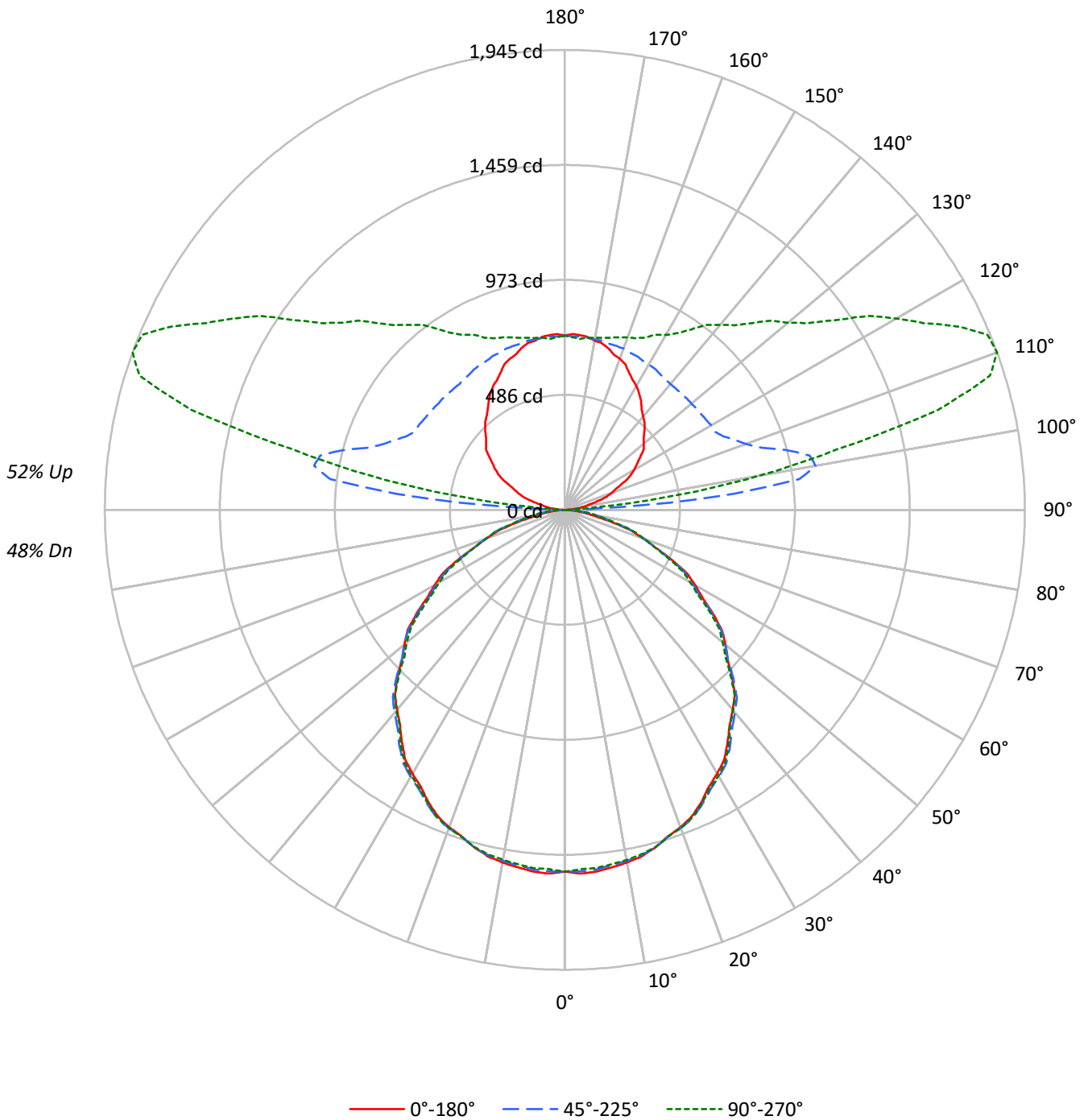
Lumens per Lamp: N/A
Luminaire Lumens: 8750.7 lumens
Efficiency: N/A
Efficacy: 117.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 74.6
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									
RC	80					70					50					30					10				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0				
RCR																									
0	107	107	107	107	98	98	98	98	82	82	82	67	67	67	54	54	54	48							
1	97	93	89	86	89	86	82	79	72	70	68	59	58	56	48	47	46	40							
2	89	81	75	70	81	75	70	65	63	59	56	52	49	47	42	40	39	34							
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29							
4	74	63	55	49	68	58	51	46	49	44	40	41	37	34	33	30	28	24							
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21							
6	62	50	42	36	57	47	39	34	40	34	30	33	29	26	27	24	22	19							
7	58	45	37	32	53	42	35	30	36	30	26	30	26	23	25	22	19	16							
8	53	41	33	28	49	38	31	27	33	27	23	28	23	20	23	19	17	15							
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13							
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12							

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14118	14118	14118
5°	14225	14133	14080
10°	14190	14124	14084
15°	14115	14115	14102
20°	14023	14065	14065
25°	13891	13991	13948
30°	13721	13887	13827
35°	13517	13724	13628
40°	13294	13481	13345
45°	13052	13144	12941
50°	12711	12711	12508
55°	12307	12148	11966
60°	11714	11477	11295
65°	10826	10610	10516
70°	9479	9555	9517
75°	7625	8434	8484
80°	5419	7152	7226
85°	3303	6002	6002



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	144.8	1.7
10°-20°	415.6	4.7
20°-30°	629.4	7.2
30°-40°	754.5	8.6
40°-50°	769.4	8.8
50°-60°	671.6	7.7
60°-70°	480.8	5.5
70°-80°	247.6	2.8
80°-90°	62.6	0.7
90°-100°	335.6	3.8
100°-110°	954.8	10.9
110°-120°	914.8	10.5
120°-130°	724.0	8.3
130°-140°	581.1	6.6
140°-150°	455.0	5.2
150°-160°	332.9	3.8
160°-170°	206.2	2.4
170°-180°	70.0	0.8
0°-30°	1189.8	13.6
0°-40°	1944.3	22.2
0°-60°	3385.3	38.7
0°-90°	4176.3	47.7
90°-120°	2205.2	25.2
90°-150°	3965.3	45.3
90°-180°	4574.0	52.3
0°-180°	8750.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1530	1530	1530	1530	1530	
5°	1536	1521	1526	1522	1520	146
15°	1478	1465	1478	1478	1476	417
25°	1364	1355	1374	1370	1370	628
35°	1200	1197	1218	1210	1210	751
45°	1000	998	1007	995	992	770
55°	765	755	755	744	744	682
65°	496	485	486	482	482	490
75°	214	224	237	238	238	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	3
95°	36	144	650	225	139	42
105°	148	225	973	1719	1634	157
115°	276	333	738	1563	1835	272
125°	389	432	704	1169	1397	348
135°	476	516	696	987	1116	367
145°	561	590	701	854	931	351
155°	641	656	718	772	804	296
165°	708	711	727	742	753	199
175°	742	738	735	731	725	70
180°	736	736	736	736	736	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1530.2	1530.2	1530.2	1530.2	1530.2
2.5°	1539.3	1526.0	1530.2	1526.7	1521.2
5°	1535.9	1520.7	1526.0	1521.7	1520.3
7.5°	1524.8	1509.6	1516.6	1513.8	1512.4
10°	1514.6	1499.4	1507.6	1504.7	1503.3
12.5°	1501.0	1486.9	1496.2	1493.4	1493.1
15°	1477.8	1465.3	1477.8	1477.8	1476.4
17.5°	1448.6	1437.3	1450.6	1451.4	1450.6
20°	1428.2	1415.7	1432.5	1431.1	1432.5
22.5°	1403.3	1393.0	1410.9	1407.3	1408.7
25°	1364.5	1354.8	1374.4	1370.1	1370.1
27.5°	1318.6	1311.6	1333.0	1328.5	1328.5
30°	1287.9	1281.0	1303.5	1297.9	1297.9
32.5°	1253.9	1249.2	1270.7	1263.9	1263.9
35°	1200.1	1197.3	1218.5	1210.0	1210.0
37.5°	1144.6	1142.1	1161.3	1151.0	1147.7
40°	1103.8	1102.4	1119.3	1108.0	1108.0
42.5°	1062.9	1061.6	1076.3	1062.7	1062.7
45°	1000.3	997.5	1007.4	994.6	991.8
47.5°	932.0	929.3	935.4	921.5	920.1
50°	885.6	882.8	885.6	872.8	871.4
52.5°	837.9	833.0	833.4	820.7	820.4
55°	765.1	755.4	755.2	743.9	743.9
57.5°	688.0	675.3	676.4	666.8	665.4
60°	634.8	620.9	622.0	613.5	612.1
62.5°	582.6	566.6	569.9	560.2	560.0
65°	495.9	484.8	486.0	481.7	481.7
67.5°	412.6	402.3	409.8	406.4	406.1
70°	351.4	344.5	354.2	354.2	352.8
72.5°	294.7	294.4	306.6	306.6	307.5
75°	213.9	223.6	236.6	238.0	238.0
77.5°	142.8	160.0	174.3	174.8	174.6
80°	102.0	121.4	134.6	137.4	136.0
82.5°	69.1	89.6	100.6	103.4	102.0
85°	31.2	47.8	56.7	58.1	56.7
87.5°	9.1	19.0	22.7	22.6	20.4
90°	0.0	0.0	0.0	0.0	0.0
92.5°	11.2	59.4	137.8	40.1	30.2
95°	36.4	144.5	649.6	224.8	138.6
97.5°	66.9	169.3	1000.5	715.9	490.6
100°	88.2	184.0	1076.6	1090.5	840.0
102.5°	111.7	199.9	1059.8	1395.9	1177.1
105°	148.4	225.1	973.0	1718.7	1633.8
107.5°	185.6	254.4	871.7	1809.7	1885.3
110°	211.4	275.7	813.4	1774.9	1944.6

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	236.0	297.1	774.2	1692.5	1934.6
115°	275.8	333.3	737.8	1563.0	1835.4
117.5°	310.8	364.7	716.3	1421.4	1710.0
120°	338.8	384.0	714.0	1340.5	1617.0
122.5°	361.2	406.4	708.4	1269.5	1526.3
125°	389.2	431.6	704.2	1168.6	1397.2
127.5°	419.7	459.4	702.0	1108.3	1296.7
130°	435.4	475.1	698.6	1066.4	1230.6
132.5°	452.2	490.8	698.6	1033.6	1184.7
135°	476.0	515.7	695.8	987.1	1115.8
137.5°	498.4	537.0	695.5	947.8	1059.0
140°	515.2	554.9	694.4	915.2	1022.0
142.5°	534.3	567.4	697.8	889.2	985.1
145°	561.4	590.2	701.4	854.4	931.0
147.5°	584.7	612.6	707.6	819.1	885.4
150°	604.8	624.0	709.8	807.5	854.0
152.5°	620.5	640.8	712.1	791.7	835.0
155°	641.2	656.3	718.2	772.1	803.6
157.5°	667.0	676.0	719.6	763.2	785.7
160°	680.4	687.3	725.2	756.5	775.6
162.5°	688.3	696.2	726.3	750.8	765.5
165°	708.4	711.2	726.6	742.3	753.2
167.5°	722.1	719.7	733.1	740.2	744.5
170°	726.6	725.2	730.8	732.3	737.8
172.5°	736.7	732.0	734.2	730.1	734.5
175°	742.0	737.9	735.0	730.7	725.2
177.5°	744.3	737.7	734.2	729.7	730.8
180°	736.4	736.4	736.4	736.4	736.4

(END OF REPORT)