

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: P561598

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (4000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561598
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (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-PC3-0U-100D-92765-1D-UNV-STD-W-4 (4000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

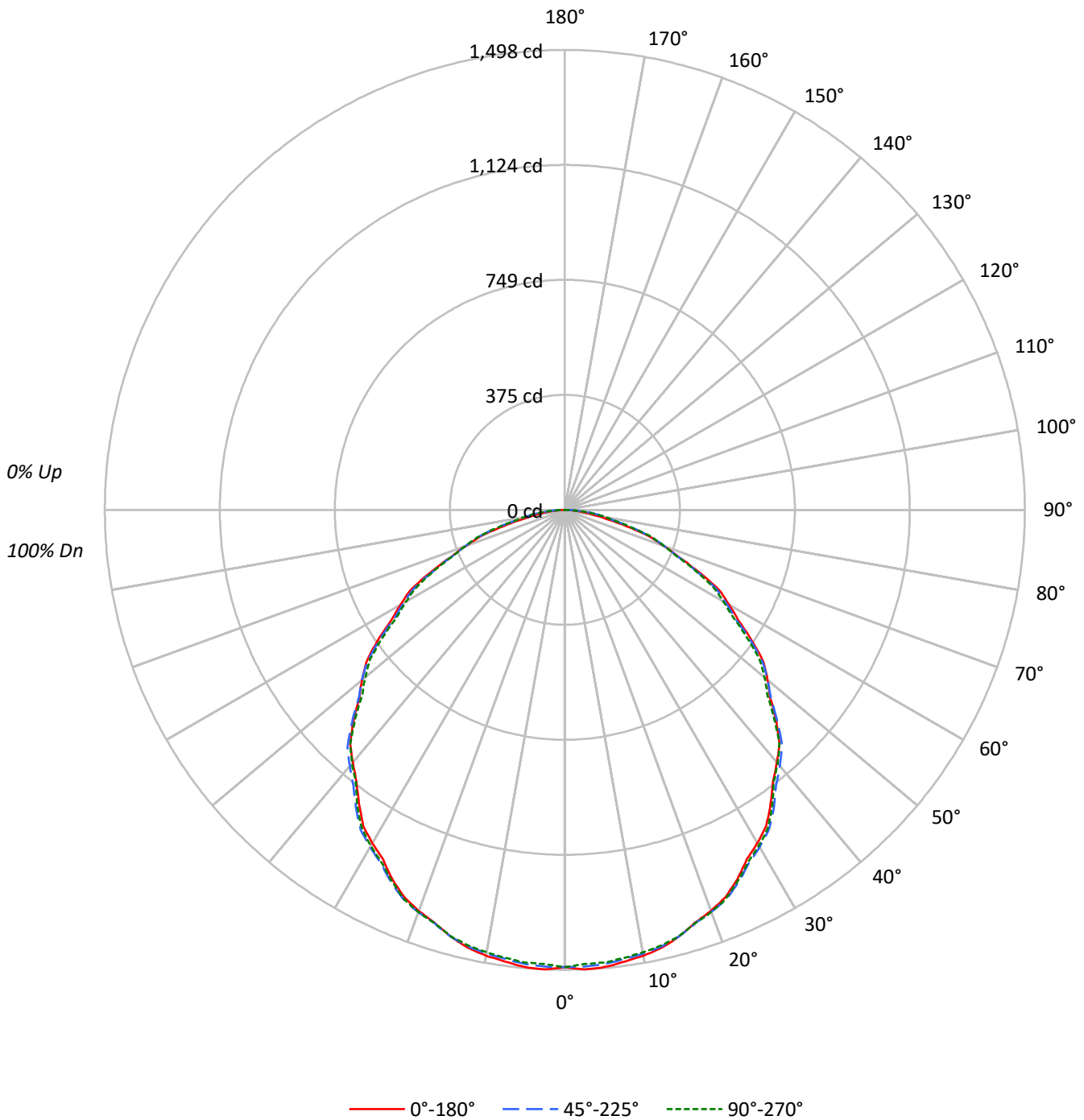
Lumens per Lamp: N/A
Luminaire Lumens: 4065.0 lumens
Efficiency: N/A
Efficacy: 95.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 42.4
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	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13742	13742	13742
5°	13846	13756	13705
10°	13812	13747	13709
15°	13739	13739	13727
20°	13649	13690	13690
25°	13520	13619	13576
30°	13355	13517	13459
35°	13156	13359	13266
40°	12939	13122	12989
45°	12705	12795	12596
50°	12373	12373	12175
55°	11979	11824	11646
60°	11402	11171	10994
65°	10538	10326	10237
70°	9226	9301	9263
75°	7422	8210	8259
80°	5276	6960	7035
85°	3208	5843	5843



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.0	3.5
10°-20°	404.5	10.0
20°-30°	612.6	15.1
30°-40°	734.4	18.1
40°-50°	748.9	18.4
50°-60°	653.7	16.1
60°-70°	468.0	11.5
70°-80°	241.0	5.9
80°-90°	60.9	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1158.1	28.5
0°-40°	1892.5	46.6
0°-60°	3295.0	81.1
0°-90°	4065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4065.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1490	1490	1490	1490	1490	
5°	1495	1480	1485	1481	1480	142
15°	1438	1426	1438	1438	1437	406
25°	1328	1319	1338	1334	1334	611
35°	1168	1165	1186	1178	1178	731
45°	974	971	981	968	965	749
55°	745	735	735	724	724	664
65°	483	472	473	469	469	477
75°	208	218	230	232	232	225
85°	30	46	55	56	55	42
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1489.5	1489.5	1489.5	1489.5	1489.5
2.5°	1498.3	1485.3	1489.5	1486.0	1480.6
5°	1495.0	1480.1	1485.3	1481.2	1479.8
7.5°	1484.2	1469.4	1476.2	1473.4	1472.1
10°	1474.3	1459.5	1467.4	1464.6	1463.3
12.5°	1461.1	1447.3	1456.4	1453.6	1453.3
15°	1438.4	1426.3	1438.4	1438.4	1437.1
17.5°	1410.0	1399.0	1412.0	1412.8	1412.0
20°	1390.2	1378.0	1394.3	1393.0	1394.3
22.5°	1365.9	1355.9	1373.3	1369.8	1371.1
25°	1328.1	1318.7	1337.8	1333.6	1333.6
27.5°	1283.4	1276.7	1297.5	1293.1	1293.1
30°	1253.6	1246.9	1268.8	1263.3	1263.3
32.5°	1220.5	1215.9	1236.8	1230.2	1230.2
35°	1168.1	1165.4	1186.1	1177.8	1177.8
37.5°	1114.1	1111.6	1130.3	1120.3	1117.1
40°	1074.3	1073.0	1089.5	1078.5	1078.5
42.5°	1034.6	1033.3	1047.6	1034.3	1034.3
45°	973.7	971.0	980.6	968.1	965.4
47.5°	907.2	904.5	910.5	897.0	895.6
50°	862.0	859.3	862.0	849.5	848.2
52.5°	815.6	810.8	811.2	798.8	798.5
55°	744.7	735.3	735.1	724.0	724.0
57.5°	669.7	657.3	658.4	649.0	647.6
60°	617.9	604.4	605.4	597.1	595.8
62.5°	567.1	551.5	554.7	545.3	545.0
65°	482.7	471.9	473.0	468.9	468.9
67.5°	401.6	391.6	398.8	395.5	395.3
70°	342.0	335.3	344.8	344.8	343.4
72.5°	286.9	286.6	298.4	298.5	299.3
75°	208.2	217.7	230.3	231.7	231.7
77.5°	139.0	155.7	169.6	170.2	169.9
80°	99.3	118.2	131.0	133.7	132.4
82.5°	67.3	87.3	97.9	100.6	99.3
85°	30.3	46.5	55.2	56.5	55.2
87.5°	8.8	18.5	22.1	22.0	19.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)