

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: P561601

Luminaire Tested: **SQ4-PC3-0U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P561601
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 (5700K)
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4235.8 lumens
Efficiency: N/A
Efficacy: 100.1 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

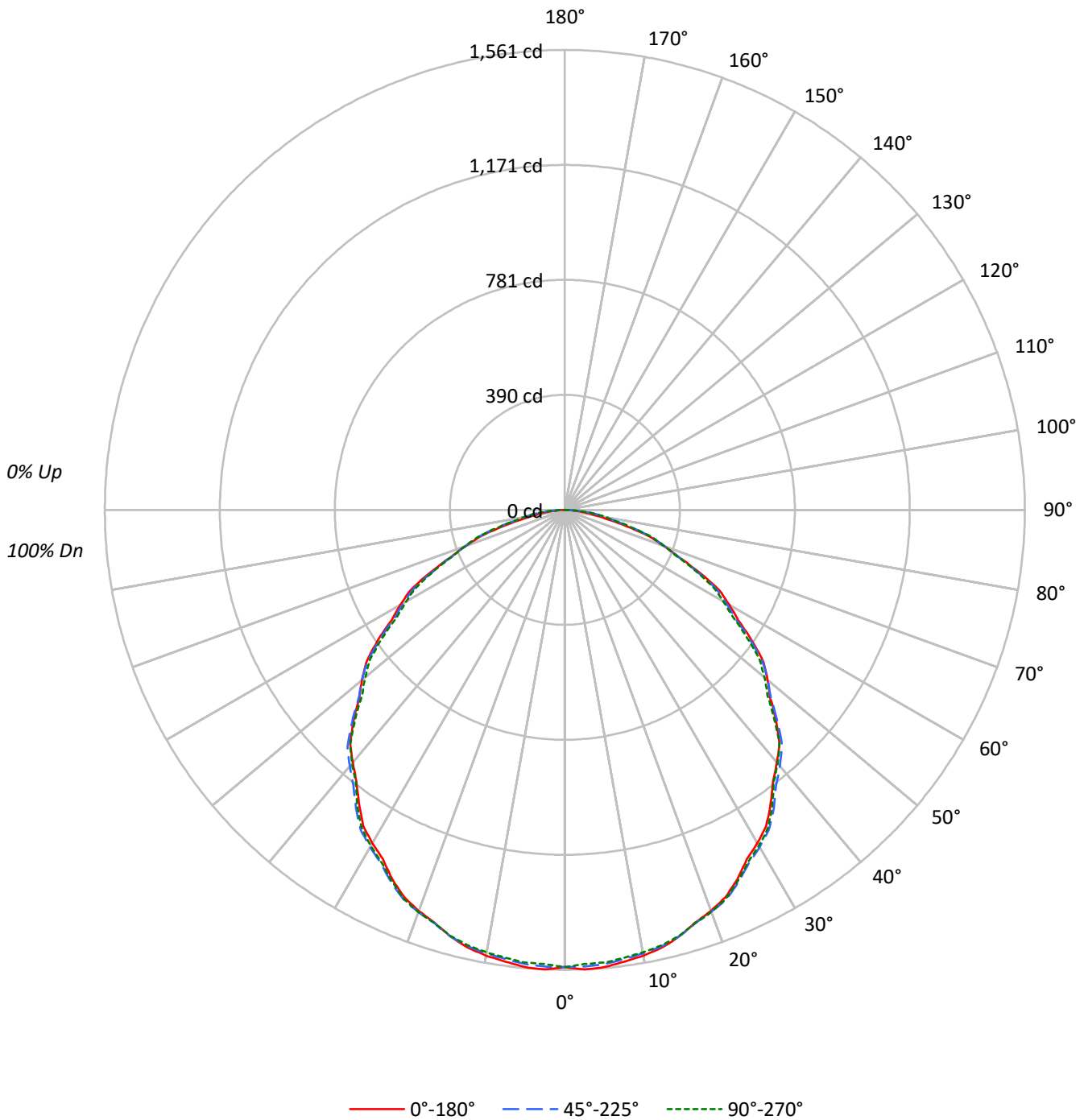
Input Watts (W): 42.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	109	105	100	97	106	102	98	95	98	95	92	94	92	89	91	88	87	85			85	
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71			71	
3	91	80	72	66	88	79	71	65	76	70	64	73	68	63	71	66	62	60			60	
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51			51	
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	44			44	
6	71	58	49	42	69	57	48	42	55	47	42	53	46	41	52	46	41	39			39	
7	66	52	43	37	64	51	43	37	50	42	37	48	42	37	47	41	36	34			34	
8	61	48	39	33	60	47	39	33	46	38	33	44	38	33	43	37	33	31			31	
9	57	44	36	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			28	
10	54	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	27	25			25	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14319	14319	14319
5°	14427	14334	14281
10°	14392	14324	14284
15°	14317	14317	14303
20°	14223	14265	14265
25°	14088	14191	14146
30°	13917	14085	14024
35°	13709	13920	13823
40°	13483	13673	13535
45°	13238	13332	13125
50°	12892	12892	12686
55°	12482	12321	12136
60°	11880	11642	11455
65°	10981	10761	10667
70°	9614	9692	9652
75°	7735	8555	8605
80°	5499	7252	7332
85°	3345	6087	6087



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	3.5
10°-20°	421.5	10.0
20°-30°	638.3	15.1
30°-40°	765.3	18.1
40°-50°	780.3	18.4
50°-60°	681.2	16.1
60°-70°	487.7	11.5
70°-80°	251.2	5.9
80°-90°	63.5	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°	1206.7	28.5
0°-40°	1972.0	46.6
0°-60°	3433.5	81.1
0°-90°	4235.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4235.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1552	1552	1552	1552	1552	
5°	1558	1542	1548	1543	1542	148
15°	1499	1486	1499	1499	1497	423
25°	1384	1374	1394	1390	1390	637
35°	1217	1214	1236	1227	1227	761
45°	1015	1012	1022	1009	1006	781
55°	776	766	766	754	754	692
65°	503	492	493	489	489	497
75°	217	227	240	241	241	235
85°	32	48	58	59	58	44
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1552.0	1552.0	1552.0	1552.0	1552.0
2.5°	1561.2	1547.7	1552.0	1548.5	1542.8
5°	1557.8	1542.3	1547.7	1543.4	1542.0
7.5°	1546.6	1531.1	1538.2	1535.3	1533.9
10°	1536.2	1520.8	1529.0	1526.1	1524.7
12.5°	1522.4	1508.1	1517.5	1514.7	1514.4
15°	1498.9	1486.2	1498.9	1498.8	1497.4
17.5°	1469.3	1457.7	1471.3	1472.1	1471.3
20°	1448.6	1435.9	1452.9	1451.5	1452.9
22.5°	1423.3	1412.9	1431.0	1427.3	1428.7
25°	1383.9	1374.1	1394.0	1389.6	1389.6
27.5°	1337.3	1330.3	1352.0	1347.4	1347.4
30°	1306.3	1299.3	1322.1	1316.4	1316.4
32.5°	1271.8	1267.0	1288.8	1281.9	1281.9
35°	1217.2	1214.4	1235.9	1227.3	1227.3
37.5°	1160.9	1158.3	1177.8	1167.4	1164.0
40°	1119.5	1118.1	1135.3	1123.8	1123.8
42.5°	1078.1	1076.7	1091.6	1077.8	1077.8
45°	1014.6	1011.8	1021.8	1008.8	1005.9
47.5°	945.3	942.5	948.8	934.6	933.2
50°	898.2	895.4	898.2	885.2	883.8
52.5°	849.9	844.8	845.3	832.3	832.1
55°	776.0	766.2	766.0	754.5	754.5
57.5°	697.8	684.9	686.1	676.3	674.8
60°	643.8	629.8	630.9	622.2	620.8
62.5°	590.9	574.6	578.0	568.2	567.9
65°	503.0	491.7	492.9	488.6	488.6
67.5°	418.5	408.1	415.6	412.1	411.9
70°	356.4	349.4	359.3	359.2	357.8
72.5°	298.9	298.6	311.0	311.0	311.8
75°	217.0	226.8	240.0	241.4	241.4
77.5°	144.9	162.3	176.8	177.3	177.0
80°	103.5	123.1	136.5	139.4	138.0
82.5°	70.1	90.9	102.0	104.9	103.5
85°	31.6	48.5	57.5	58.9	57.5
87.5°	9.2	19.3	23.0	22.9	20.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)