

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

Brand: CORELITE

Report Number: P688676

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_5700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/22/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_5700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 5700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199.0 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Spacing Criteria (0/90/45): 1.25 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 3.83' x H: 0')
CIE Type: Direct

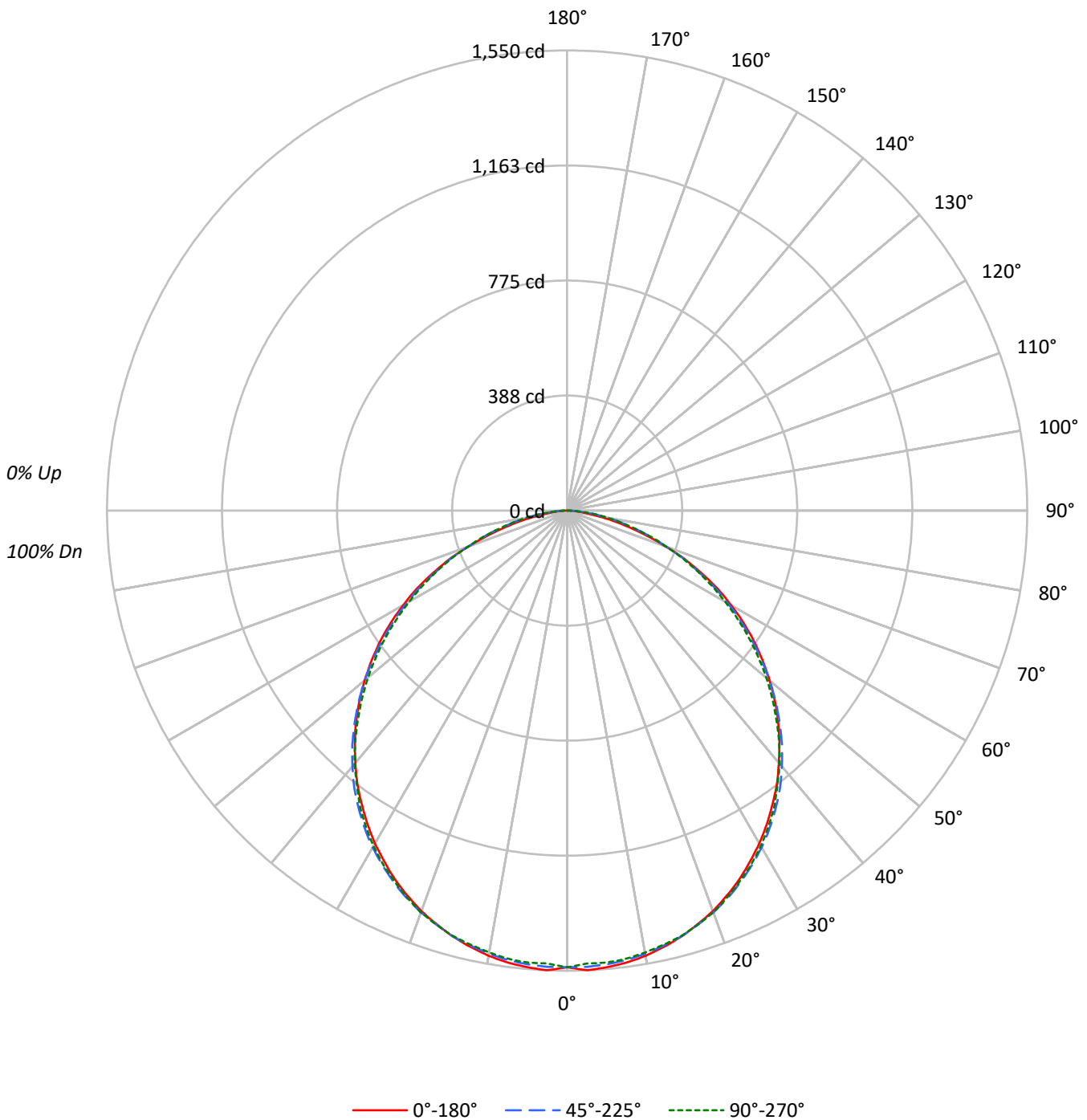
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	14810	14810	14810
5°	14921	14825	14770
10°	14885	14815	14773
15°	14807	14807	14792
20°	14709	14753	14753
25°	14570	14676	14631
30°	14393	14567	14504
35°	14179	14396	14296
40°	13944	14141	13998
45°	13691	13788	13574
50°	13333	13333	13120
55°	12909	12743	12552
60°	12286	12040	11847
65°	11356	11128	11032
70°	9942	10024	9984
75°	8001	8849	8901
80°	5688	7501	7579
85°	3457	6296	6296

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.7	3.5
10°-20°	418.0	10.0
20°-30°	633.0	15.1
30°-40°	759.0	18.1
40°-50°	773.8	18.4
50°-60°	675.4	16.1
60°-70°	483.6	11.5
70°-80°	248.4	5.9
80°-90°	62.1	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°	1196.6	28.5
0°-40°	1955.6	46.6
0°-60°	3404.9	81.1
0°-90°	4199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4199.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1538	1538	1538	1538	1538	
5°	1544	1528	1534	1530	1528	147
15°	1486	1473	1486	1486	1484	419
25°	1372	1362	1382	1377	1377	632
35°	1206	1204	1225	1216	1216	755
45°	1006	1003	1013	1000	997	775
55°	769	759	759	748	748	686
65°	498	487	488	484	484	494
75°	215	225	238	239	239	231
85°	31	48	57	58	57	42
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1538.3	1538.3	1538.3	1538.3	1538.3
2.5°	1549.7	1532.6	1538.3	1534.0	1526.9
5°	1544.0	1528.3	1534.0	1529.7	1528.3
7.5°	1535.4	1519.7	1526.9	1524.0	1522.6
10°	1522.6	1506.9	1515.5	1512.6	1511.2
12.5°	1505.5	1491.3	1501.2	1498.4	1498.4
15°	1485.6	1472.7	1485.6	1485.6	1484.1
17.5°	1461.4	1450.0	1462.8	1464.2	1462.8
20°	1435.7	1422.9	1440.0	1438.6	1440.0
22.5°	1404.4	1394.4	1412.9	1408.7	1410.1
25°	1371.6	1361.6	1381.6	1377.3	1377.3
27.5°	1333.2	1326.0	1347.4	1343.1	1343.1
30°	1294.7	1287.6	1310.4	1304.7	1304.7
32.5°	1252.0	1247.7	1269.1	1261.9	1261.9
35°	1206.4	1203.5	1224.9	1216.4	1216.4
37.5°	1160.8	1158.0	1177.9	1167.9	1163.7
40°	1109.5	1108.1	1125.2	1113.8	1113.8
42.5°	1058.3	1056.8	1071.1	1056.8	1056.8
45°	1005.6	1002.7	1012.7	999.9	997.0
47.5°	948.6	945.7	952.9	938.6	937.2
50°	890.2	887.4	890.2	877.4	876.0
52.5°	830.4	824.7	824.7	811.9	811.9
55°	769.1	759.2	759.2	747.8	747.8
57.5°	705.0	692.2	693.6	683.7	682.2
60°	638.1	623.9	625.3	616.7	615.3
62.5°	572.6	555.5	559.8	549.8	549.8
65°	498.5	487.1	488.5	484.3	484.3
67.5°	430.1	418.7	425.9	421.6	421.6
70°	353.2	346.1	356.1	356.1	354.7
72.5°	282.0	283.4	296.3	296.3	297.7
75°	215.1	225.0	237.9	239.3	239.3
77.5°	153.8	170.9	185.2	185.2	185.2
80°	102.6	122.5	135.3	138.2	136.7
82.5°	61.2	82.6	92.6	95.4	94.0
85°	31.3	48.4	57.0	58.4	57.0
87.5°	11.4	24.2	28.5	28.5	25.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)