

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: P688683

Luminaire Tested: SQ4R-PC3-125D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688683
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-PC3-125D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1250 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4495.1 lumens
Efficiency: N/A
Efficacy: 74.1 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

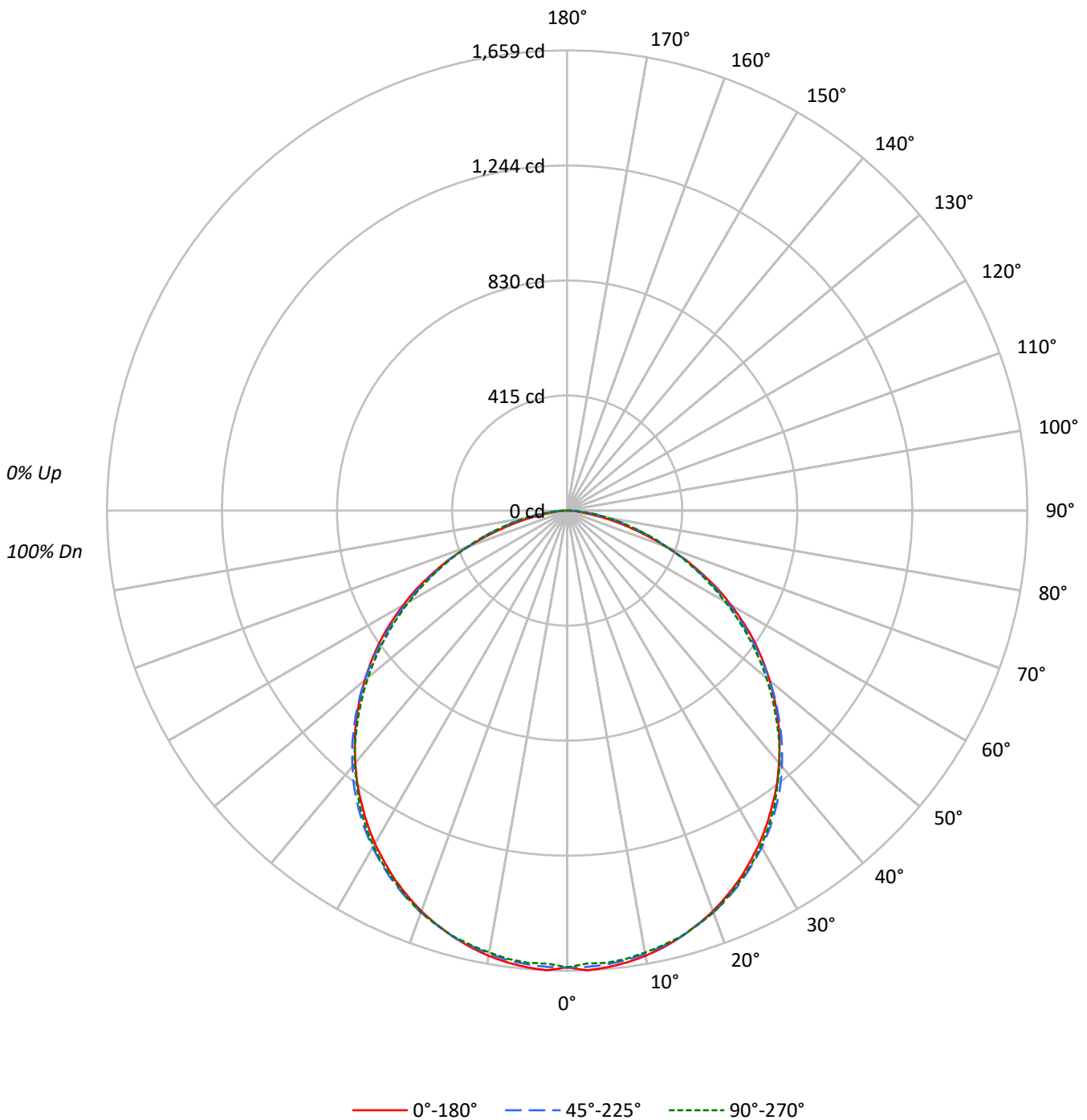
Input Watts (W): 60.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	15854	15854	15854
5°	15974	15870	15811
10°	15935	15860	15815
15°	15851	15851	15836
20°	15747	15794	15794
25°	15598	15711	15663
30°	15408	15595	15527
35°	15179	15411	15305
40°	14928	15139	14986
45°	14657	14760	14531
50°	14274	14274	14044
55°	13821	13641	13436
60°	13153	12889	12683
65°	12158	11914	11809
70°	10643	10730	10688
75°	8563	9470	9530
80°	6087	8033	8117
85°	3700	6738	6738

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14760 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.9	3.5
10°-20°	447.5	10.0
20°-30°	677.6	15.1
30°-40°	812.5	18.1
40°-50°	828.4	18.4
50°-60°	723.1	16.1
60°-70°	517.7	11.5
70°-80°	265.9	5.9
80°-90°	66.5	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°	1281.0	28.5
0°-40°	2093.6	46.6
0°-60°	3645.0	81.1
0°-90°	4495.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4495.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1647	1647	1647	1647	1647	
5°	1653	1636	1642	1638	1636	157
15°	1590	1577	1590	1590	1589	449
25°	1468	1458	1479	1474	1474	676
35°	1292	1288	1311	1302	1302	808
45°	1076	1073	1084	1070	1067	829
55°	823	813	813	800	800	735
65°	534	522	523	518	518	529
75°	230	241	255	256	256	248
85°	34	52	61	62	61	45
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1646.8	1646.8	1646.8	1646.8	1646.8
2.5°	1659.0	1640.7	1646.8	1642.2	1634.6
5°	1652.9	1636.1	1642.2	1637.6	1636.1
7.5°	1643.7	1626.9	1634.6	1631.5	1630.0
10°	1630.0	1613.2	1622.4	1619.3	1617.8
12.5°	1611.7	1596.5	1607.1	1604.1	1604.1
15°	1590.4	1576.6	1590.4	1590.4	1588.8
17.5°	1564.4	1552.2	1566.0	1567.5	1566.0
20°	1537.0	1523.3	1541.6	1540.0	1541.6
22.5°	1503.4	1492.8	1512.6	1508.0	1509.5
25°	1468.4	1457.7	1479.0	1474.5	1474.5
27.5°	1427.2	1419.6	1442.4	1437.9	1437.9
30°	1386.0	1378.4	1402.8	1396.7	1396.7
32.5°	1340.3	1335.7	1358.6	1351.0	1351.0
35°	1291.5	1288.4	1311.3	1302.2	1302.2
37.5°	1242.7	1239.7	1261.0	1250.3	1245.7
40°	1187.8	1186.3	1204.6	1192.4	1192.4
42.5°	1132.9	1131.4	1146.6	1131.4	1131.4
45°	1076.5	1073.4	1084.1	1070.4	1067.3
47.5°	1015.5	1012.5	1020.1	1004.8	1003.3
50°	953.0	949.9	953.0	939.3	937.7
52.5°	888.9	882.9	882.9	869.1	869.1
55°	823.4	812.7	812.7	800.5	800.5
57.5°	754.8	741.0	742.6	731.9	730.4
60°	683.1	667.9	669.4	660.2	658.7
62.5°	613.0	594.7	599.2	588.6	588.6
65°	533.7	521.5	523.0	518.4	518.4
67.5°	460.5	448.3	455.9	451.3	451.3
70°	378.1	370.5	381.2	381.2	379.7
72.5°	301.9	303.4	317.2	317.2	318.7
75°	230.2	240.9	254.6	256.2	256.2
77.5°	164.7	183.0	198.2	198.2	198.2
80°	109.8	131.1	144.9	147.9	146.4
82.5°	65.6	88.4	99.1	102.2	100.6
85°	33.5	51.8	61.0	62.5	61.0
87.5°	12.2	25.9	30.5	30.5	27.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)