

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: P688677

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_6500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688677
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_6500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 6500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4286.9 lumens
Efficiency: N/A
Efficacy: 92.8 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

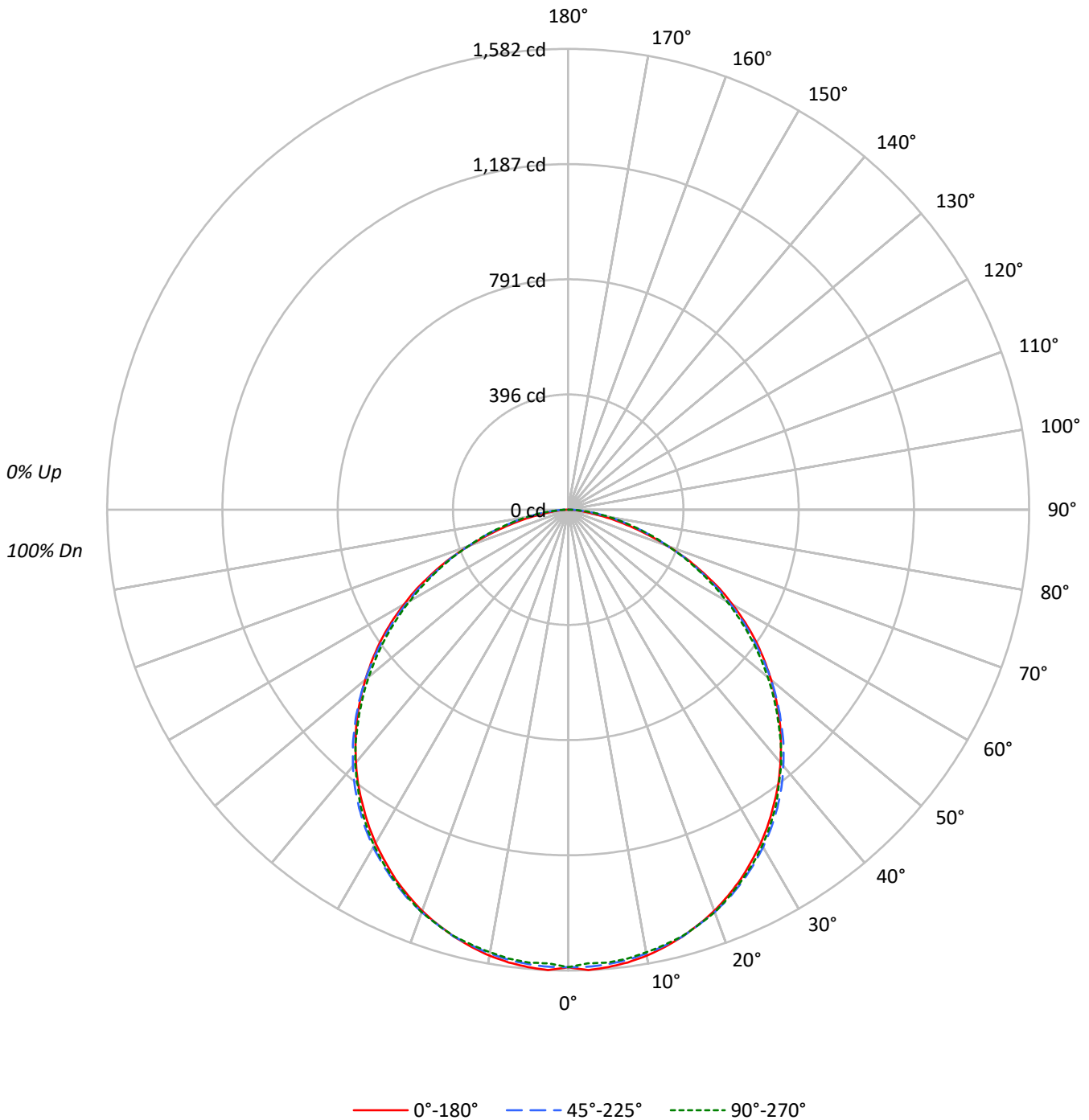
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	15120	15120	15120
5°	15234	15135	15079
10°	15197	15125	15083
15°	15117	15117	15102
20°	15017	15062	15062
25°	14876	14983	14937
30°	14694	14872	14807
35°	14476	14698	14596
40°	14237	14438	14292
45°	13977	14077	13859
50°	13613	13613	13394
55°	13179	13010	12813
60°	12544	12292	12096
65°	11595	11363	11263
70°	10150	10232	10193
75°	8169	9031	9087
80°	5805	7656	7740
85°	3535	6429	6429

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 14077 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.7	3.5
10°-20°	426.7	10.0
20°-30°	646.3	15.1
30°-40°	774.9	18.1
40°-50°	790.0	18.4
50°-60°	689.6	16.1
60°-70°	493.7	11.5
70°-80°	253.6	5.9
80°-90°	63.4	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°	1221.7	28.5
0°-40°	1996.6	46.6
0°-60°	3476.2	81.1
0°-90°	4286.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4286.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1570	1570	1570	1570	1570	
5°	1576	1560	1566	1562	1560	150
15°	1517	1504	1517	1517	1515	428
25°	1400	1390	1410	1406	1406	645
35°	1232	1229	1251	1242	1242	771
45°	1027	1024	1034	1021	1018	791
55°	785	775	775	763	763	701
65°	509	497	499	494	494	504
75°	220	230	243	244	244	236
85°	32	49	58	60	58	43
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1570.5	1570.5	1570.5	1570.5	1570.5
2.5°	1582.1	1564.7	1570.5	1566.1	1558.9
5°	1576.3	1560.3	1566.1	1561.8	1560.3
7.5°	1567.6	1551.6	1558.9	1556.0	1554.5
10°	1554.5	1538.5	1547.2	1544.3	1542.9
12.5°	1537.1	1522.5	1532.7	1529.8	1529.8
15°	1516.7	1503.6	1516.7	1516.7	1515.2
17.5°	1492.0	1480.3	1493.4	1494.9	1493.4
20°	1465.8	1452.7	1470.2	1468.7	1470.2
22.5°	1433.8	1423.6	1442.5	1438.2	1439.6
25°	1400.4	1390.2	1410.5	1406.2	1406.2
27.5°	1361.1	1353.8	1375.6	1371.3	1371.3
30°	1321.8	1314.6	1337.8	1332.0	1332.0
32.5°	1278.2	1273.8	1295.7	1288.4	1288.4
35°	1231.7	1228.8	1250.6	1241.9	1241.9
37.5°	1185.1	1182.2	1202.6	1192.4	1188.1
40°	1132.8	1131.3	1148.8	1137.2	1137.2
42.5°	1080.4	1079.0	1093.5	1079.0	1079.0
45°	1026.6	1023.7	1033.9	1020.8	1017.9
47.5°	968.5	965.6	972.8	958.3	956.8
50°	908.9	905.9	908.9	895.8	894.3
52.5°	847.8	842.0	842.0	828.9	828.9
55°	785.2	775.1	775.1	763.4	763.4
57.5°	719.8	706.7	708.2	698.0	696.5
60°	651.5	636.9	638.4	629.7	628.2
62.5°	584.6	567.1	571.5	561.3	561.3
65°	509.0	497.3	498.8	494.4	494.4
67.5°	439.2	427.5	434.8	430.4	430.4
70°	360.6	353.4	363.5	363.5	362.1
72.5°	287.9	289.4	302.5	302.5	303.9
75°	219.6	229.8	242.8	244.3	244.3
77.5°	157.0	174.5	189.0	189.0	189.0
80°	104.7	125.1	138.1	141.1	139.6
82.5°	62.5	84.3	94.5	97.4	96.0
85°	32.0	49.4	58.2	59.6	58.2
87.5°	11.6	24.7	29.1	29.1	26.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)