

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: P688671

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_3000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688671
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_3000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3688.8 lumens
Efficiency: N/A
Efficacy: 80.0 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

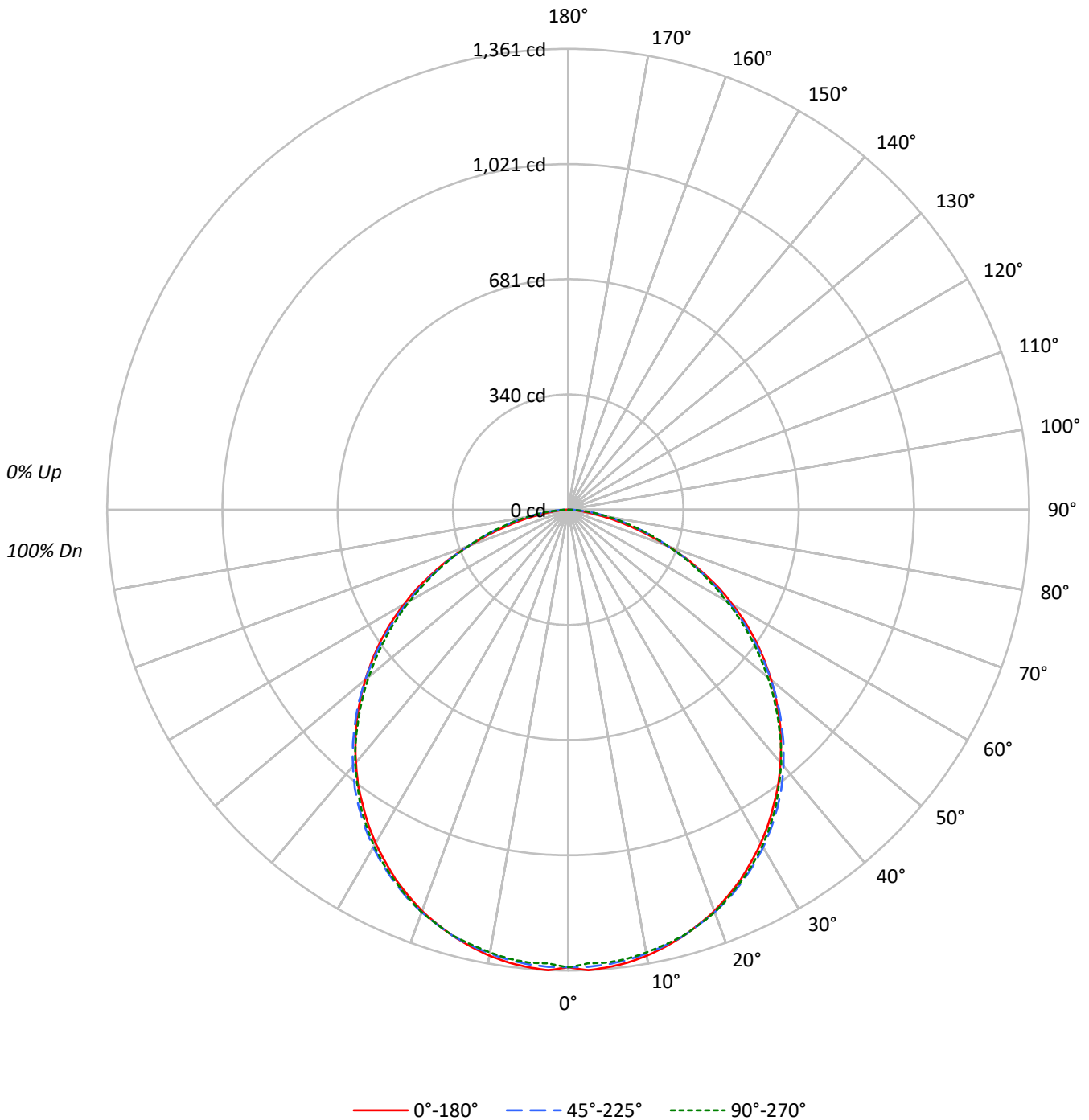
Input Watts (W): 46.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	13010	13010	13010
5°	13108	13023	12975
10°	13076	13015	12978
15°	13008	13008	12995
20°	12922	12960	12960
25°	12800	12893	12853
30°	12644	12798	12741
35°	12456	12647	12559
40°	12250	12423	12297
45°	12028	12112	11925
50°	11712	11712	11525
55°	11341	11194	11026
60°	10794	10577	10407
65°	9975	9777	9691
70°	8734	8805	8771
75°	7027	7774	7819
80°	4995	6592	6659
85°	3038	5534	5534

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.0	3.5
10°-20°	367.2	10.0
20°-30°	556.1	15.1
30°-40°	666.8	18.1
40°-50°	679.8	18.4
50°-60°	593.4	16.1
60°-70°	424.8	11.5
70°-80°	218.2	5.9
80°-90°	54.6	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°	1051.2	28.5
0°-40°	1718.0	46.6
0°-60°	2991.1	81.1
0°-90°	3688.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3688.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1351	1351	1351	1351	1351	
5°	1356	1343	1348	1344	1343	129
15°	1305	1294	1305	1305	1304	368
25°	1205	1196	1214	1210	1210	555
35°	1060	1057	1076	1069	1069	663
45°	883	881	890	878	876	680
55°	676	667	667	657	657	603
65°	438	428	429	425	425	434
75°	189	198	209	210	210	203
85°	28	42	50	51	50	37
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1351.4	1351.4	1351.4	1351.4	1351.4
2.5°	1361.4	1346.3	1351.4	1347.6	1341.3
5°	1356.4	1342.6	1347.6	1343.8	1342.6
7.5°	1348.9	1335.1	1341.3	1338.8	1337.6
10°	1337.6	1323.8	1331.3	1328.8	1327.6
12.5°	1322.6	1310.1	1318.8	1316.3	1316.3
15°	1305.1	1293.8	1305.1	1305.1	1303.8
17.5°	1283.8	1273.8	1285.0	1286.3	1285.0
20°	1261.3	1250.0	1265.0	1263.8	1265.0
22.5°	1233.7	1225.0	1241.2	1237.5	1238.7
25°	1205.0	1196.2	1213.7	1210.0	1210.0
27.5°	1171.2	1164.9	1183.7	1179.9	1179.9
30°	1137.4	1131.1	1151.2	1146.1	1146.1
32.5°	1099.9	1096.1	1114.9	1108.6	1108.6
35°	1059.8	1057.3	1076.1	1068.6	1068.6
37.5°	1019.8	1017.3	1034.8	1026.0	1022.3
40°	974.7	973.5	988.5	978.5	978.5
42.5°	929.7	928.4	940.9	928.4	928.4
45°	883.4	880.9	889.6	878.4	875.9
47.5°	833.3	830.8	837.1	824.6	823.3
50°	782.0	779.5	782.0	770.8	769.5
52.5°	729.5	724.5	724.5	713.2	713.2
55°	675.7	666.9	666.9	656.9	656.9
57.5°	619.4	608.1	609.4	600.6	599.4
60°	560.6	548.0	549.3	541.8	540.5
62.5°	503.0	488.0	491.7	483.0	483.0
65°	437.9	427.9	429.2	425.4	425.4
67.5°	377.9	367.9	374.1	370.4	370.4
70°	310.3	304.1	312.8	312.8	311.6
72.5°	247.7	249.0	260.3	260.3	261.5
75°	188.9	197.7	209.0	210.2	210.2
77.5°	135.1	150.2	162.7	162.7	162.7
80°	90.1	107.6	118.9	121.4	120.1
82.5°	53.8	72.6	81.3	83.8	82.6
85°	27.5	42.5	50.1	51.3	50.1
87.5°	10.0	21.3	25.0	25.0	22.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)