

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: P688673

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_4000K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688673
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_4000K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3943.7 lumens
Efficiency: N/A
Efficacy: 85.4 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

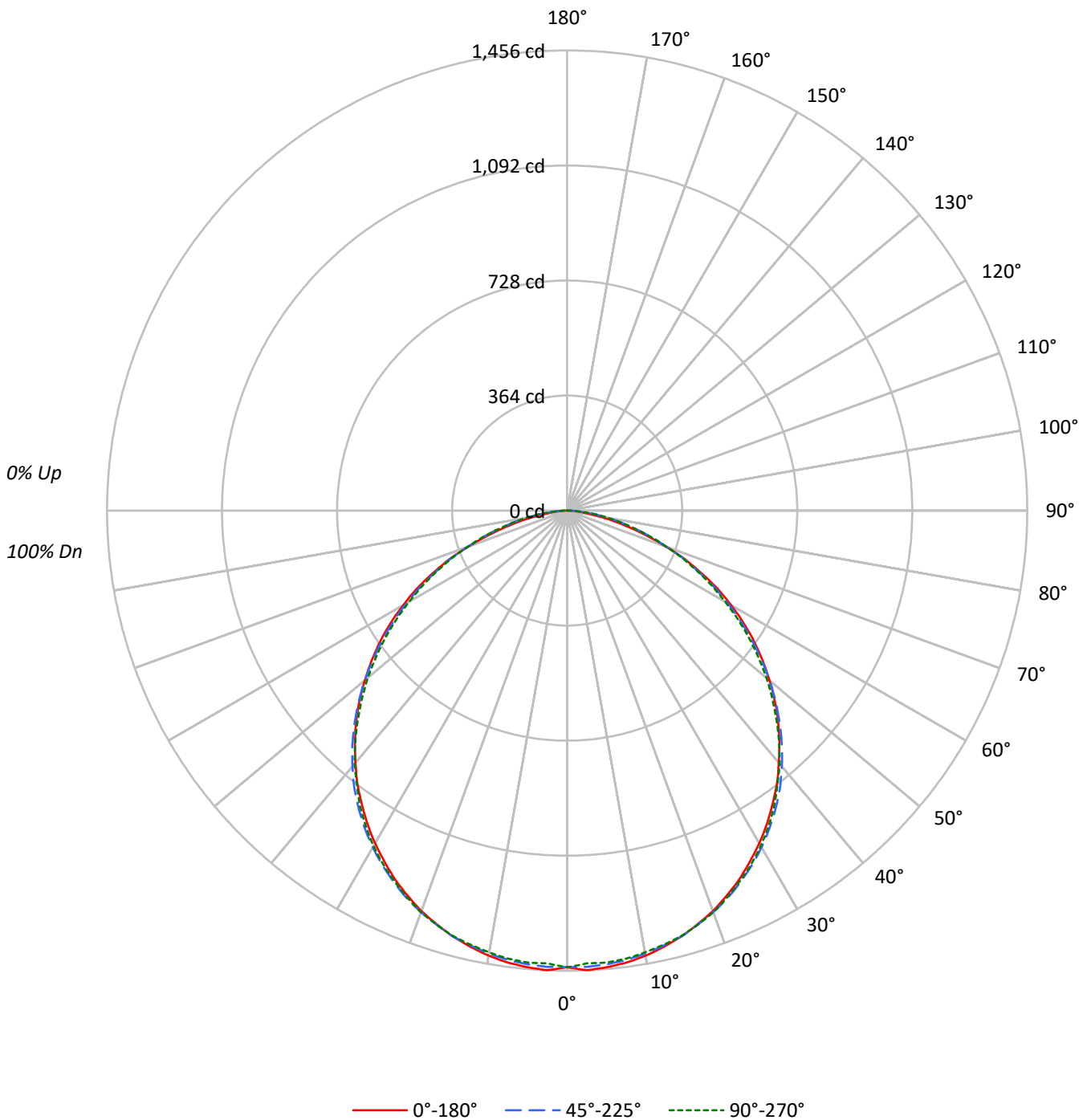
Input Watts (W): 46.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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°	13910	13910	13910
5°	14014	13924	13872
10°	13980	13915	13876
15°	13907	13907	13893
20°	13816	13857	13857
25°	13685	13784	13741
30°	13518	13681	13622
35°	13317	13522	13426
40°	13097	13281	13147
45°	12859	12949	12749
50°	12523	12523	12322
55°	12125	11968	11788
60°	11539	11308	11127
65°	10666	10452	10360
70°	9340	9413	9376
75°	7514	8310	8358
80°	5339	7047	7119
85°	3248	5910	5910

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 12949 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	3.5
10°-20°	392.6	10.0
20°-30°	594.5	15.1
30°-40°	712.8	18.1
40°-50°	726.8	18.4
50°-60°	634.4	16.1
60°-70°	454.2	11.5
70°-80°	233.3	5.9
80°-90°	58.4	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°	1123.9	28.5
0°-40°	1836.7	46.6
0°-60°	3197.9	81.1
0°-90°	3943.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3943.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1445	1445	1445	1445	1445	
5°	1450	1435	1441	1437	1435	138
15°	1395	1383	1395	1395	1394	394
25°	1288	1279	1298	1294	1294	593
35°	1133	1130	1150	1142	1142	709
45°	944	942	951	939	936	727
55°	722	713	713	702	702	644
65°	468	458	459	455	455	464
75°	202	211	223	225	225	217
85°	29	46	54	55	54	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1444.8	1444.8	1444.8	1444.8	1444.8
2.5°	1455.5	1439.4	1444.8	1440.8	1434.1
5°	1450.1	1435.4	1440.8	1436.7	1435.4
7.5°	1442.1	1427.4	1434.1	1431.4	1430.1
10°	1430.1	1415.3	1423.4	1420.7	1419.4
12.5°	1414.0	1400.6	1410.0	1407.3	1407.3
15°	1395.3	1383.2	1395.3	1395.3	1393.9
17.5°	1372.5	1361.8	1373.9	1375.2	1373.9
20°	1348.5	1336.4	1352.5	1351.1	1352.5
22.5°	1319.0	1309.7	1327.1	1323.0	1324.4
25°	1288.3	1278.9	1297.6	1293.6	1293.6
27.5°	1252.1	1245.4	1265.5	1261.5	1261.5
30°	1216.0	1209.3	1230.7	1225.4	1225.4
32.5°	1175.9	1171.9	1191.9	1185.2	1185.2
35°	1133.1	1130.4	1150.5	1142.4	1142.4
37.5°	1090.3	1087.6	1106.3	1097.0	1092.9
40°	1042.1	1040.8	1056.8	1046.1	1046.1
42.5°	994.0	992.6	1006.0	992.6	992.6
45°	944.5	941.8	951.1	939.1	936.4
47.5°	890.9	888.3	895.0	881.6	880.2
50°	836.1	833.4	836.1	824.1	822.7
52.5°	779.9	774.6	774.6	762.5	762.5
55°	722.4	713.0	713.0	702.3	702.3
57.5°	662.2	650.1	651.5	642.1	640.8
60°	599.3	585.9	587.3	579.2	577.9
62.5°	537.8	521.7	525.7	516.4	516.4
65°	468.2	457.5	458.8	454.8	454.8
67.5°	404.0	393.3	400.0	396.0	396.0
70°	331.8	325.1	334.4	334.4	333.1
72.5°	264.9	266.2	278.3	278.3	279.6
75°	202.0	211.4	223.4	224.7	224.7
77.5°	144.5	160.5	173.9	173.9	173.9
80°	96.3	115.0	127.1	129.8	128.4
82.5°	57.5	77.6	87.0	89.6	88.3
85°	29.4	45.5	53.5	54.8	53.5
87.5°	10.7	22.7	26.8	26.8	24.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)