

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: P688674

Luminaire Tested: SQ4R-PC3-100D-92765-1-UNV-STD-W-4_4500K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688674
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_4500K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
1000 LUMENS PER FOOT
Light Source: 4500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4026.6 lumens
Efficiency: N/A
Efficacy: 87.0 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

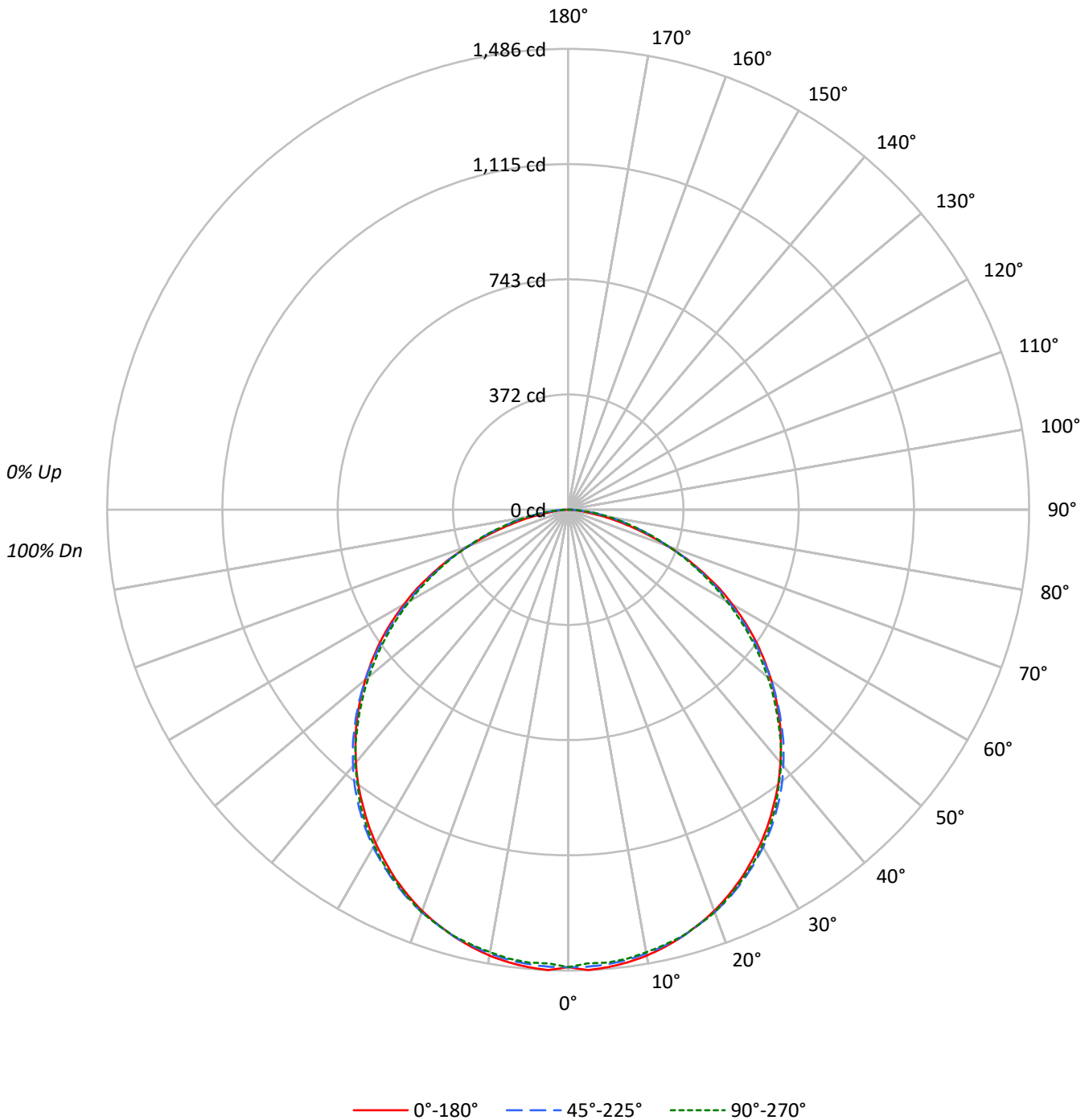
Input Watts (W): 46.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87	85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73	71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47	44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41	39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36	34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29	28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14201	14201	14201
5°	14309	14216	14164
10°	14274	14207	14167
15°	14199	14199	14185
20°	14106	14148	14148
25°	13972	14074	14030
30°	13802	13969	13908
35°	13597	13805	13708
40°	13372	13560	13423
45°	13129	13222	13017
50°	12786	12786	12581
55°	12380	12219	12036
60°	11782	11545	11360
65°	10889	10673	10579
70°	9534	9613	9573
75°	7670	8485	8537
80°	5450	7196	7268
85°	3314	6031	6031

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 13222 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	3.5
10°-20°	400.8	10.0
20°-30°	607.0	15.1
30°-40°	727.8	18.1
40°-50°	742.1	18.4
50°-60°	647.7	16.1
60°-70°	463.7	11.5
70°-80°	238.2	5.9
80°-90°	59.6	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°	1147.5	28.5
0°-40°	1875.3	46.6
0°-60°	3265.1	81.1
0°-90°	4026.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4026.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1475	1475	1475	1475	1475	
5°	1481	1466	1471	1467	1466	141
15°	1425	1412	1425	1425	1423	402
25°	1315	1306	1325	1321	1321	606
35°	1157	1154	1175	1166	1166	724
45°	964	962	971	959	956	743
55°	738	728	728	717	717	658
65°	478	467	468	464	464	473
75°	206	216	228	230	230	222
85°	30	46	55	56	55	40
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1475.1	1475.1	1475.1	1475.1	1475.1
2.5°	1486.0	1469.6	1475.1	1471.0	1464.2
5°	1480.6	1465.6	1471.0	1466.9	1465.6
7.5°	1472.4	1457.4	1464.2	1461.5	1460.1
10°	1460.1	1445.1	1453.3	1450.5	1449.2
12.5°	1443.7	1430.0	1439.6	1436.9	1436.9
15°	1424.6	1412.3	1424.6	1424.6	1423.2
17.5°	1401.4	1390.4	1402.7	1404.1	1402.7
20°	1376.8	1364.5	1380.9	1379.5	1380.9
22.5°	1346.7	1337.2	1354.9	1350.8	1352.2
25°	1315.3	1305.7	1324.9	1320.8	1320.8
27.5°	1278.4	1271.6	1292.1	1288.0	1288.0
30°	1241.6	1234.7	1256.6	1251.1	1251.1
32.5°	1200.6	1196.5	1217.0	1210.1	1210.1
35°	1156.9	1154.1	1174.6	1166.4	1166.4
37.5°	1113.2	1110.4	1129.6	1120.0	1115.9
40°	1064.0	1062.6	1079.0	1068.1	1068.1
42.5°	1014.8	1013.5	1027.1	1013.5	1013.5
45°	964.3	961.6	971.1	958.8	956.1
47.5°	909.7	906.9	913.8	900.1	898.7
50°	853.7	850.9	853.7	841.4	840.0
52.5°	796.3	790.8	790.8	778.5	778.5
55°	737.6	728.0	728.0	717.1	717.1
57.5°	676.1	663.8	665.2	655.6	654.2
60°	611.9	598.2	599.6	591.4	590.0
62.5°	549.1	532.7	536.8	527.2	527.2
65°	478.0	467.1	468.5	464.4	464.4
67.5°	412.5	401.6	408.4	404.3	404.3
70°	338.7	331.9	341.5	341.5	340.1
72.5°	270.4	271.8	284.1	284.1	285.5
75°	206.2	215.8	228.1	229.5	229.5
77.5°	147.5	163.9	177.6	177.6	177.6
80°	98.3	117.5	129.8	132.5	131.1
82.5°	58.7	79.2	88.8	91.5	90.1
85°	30.0	46.4	54.6	56.0	54.6
87.5°	10.9	23.2	27.3	27.3	24.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)