

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: P688644

Luminaire Tested: SQ4R-PC3-050D-92765-1-UNV-STD-W-4_2700K

Issue Date: 5/22/2023

Test Information

Test Method: LM-79-2019
Report Number: P688644
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-PC3-050D-92765-1-UNV-STD-W-4_2700K
Description: CORELITE SQ4R RECESSED LED LUMINAIRE WITH PERCEIVE PYRAMID CONTINUOUS LENS.
500 LUMENS PER FOOT
Light Source: 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1805.7 lumens
Efficiency: N/A
Efficacy: 86.0 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

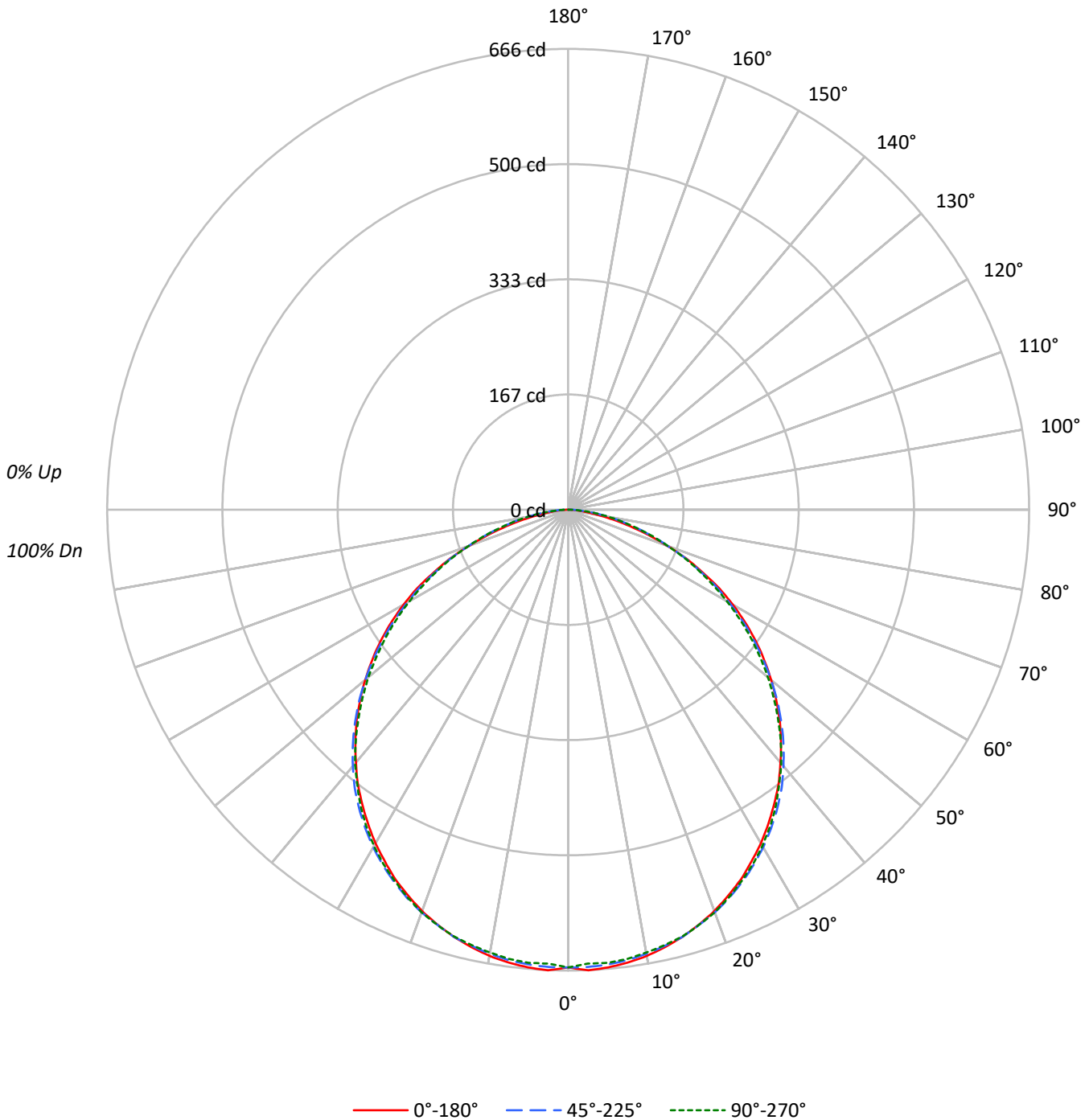
Input Watts (W): 21
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	6368	6368	6368
5°	6417	6375	6351
10°	6401	6371	6353
15°	6368	6368	6362
20°	6325	6345	6345
25°	6266	6311	6292
30°	6190	6264	6238
35°	6097	6191	6148
40°	5997	6081	6020
45°	5887	5929	5838
50°	5733	5733	5642
55°	5552	5480	5398
60°	5283	5178	5095
65°	4884	4786	4745
70°	4276	4310	4293
75°	3441	3805	3828
80°	2445	3227	3260
85°	1491	2706	2706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 5929 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.6	3.5
10°-20°	179.8	10.0
20°-30°	272.2	15.1
30°-40°	326.4	18.1
40°-50°	332.8	18.4
50°-60°	290.5	16.1
60°-70°	208.0	11.5
70°-80°	106.8	5.9
80°-90°	26.7	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°	514.6	28.5
0°-40°	841.0	46.6
0°-60°	1464.3	81.1
0°-90°	1805.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1805.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	662	662	662	662	662	
5°	664	657	660	658	657	63
15°	639	633	639	639	638	180
25°	590	586	594	592	592	272
35°	519	518	527	523	523	325
45°	432	431	436	430	429	333
55°	331	326	326	322	322	295
65°	214	210	210	208	208	212
75°	92	97	102	103	103	100
85°	14	21	24	25	24	18
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	661.5	661.5	661.5	661.5	661.5
2.5°	666.4	659.1	661.5	659.7	656.6
5°	664.0	657.2	659.7	657.9	657.2
7.5°	660.3	653.6	656.6	655.4	654.8
10°	654.8	648.1	651.7	650.5	649.9
12.5°	647.4	641.3	645.6	644.4	644.4
15°	638.9	633.4	638.9	638.9	638.3
17.5°	628.5	623.6	629.1	629.7	629.1
20°	617.4	611.9	619.3	618.7	619.3
22.5°	603.9	599.7	607.6	605.8	606.4
25°	589.9	585.6	594.1	592.3	592.3
27.5°	573.3	570.3	579.4	577.6	577.6
30°	556.8	553.7	563.5	561.1	561.1
32.5°	538.4	536.6	545.8	542.7	542.7
35°	518.8	517.6	526.8	523.1	523.1
37.5°	499.2	498.0	506.6	502.3	500.4
40°	477.2	476.5	483.9	479.0	479.0
42.5°	455.1	454.5	460.6	454.5	454.5
45°	432.4	431.2	435.5	430.0	428.8
47.5°	407.9	406.7	409.8	403.7	403.0
50°	382.8	381.6	382.8	377.3	376.7
52.5°	357.1	354.7	354.7	349.1	349.1
55°	330.8	326.5	326.5	321.6	321.6
57.5°	303.2	297.7	298.3	294.0	293.4
60°	274.4	268.3	268.9	265.2	264.6
62.5°	246.2	238.9	240.7	236.4	236.4
65°	214.4	209.5	210.1	208.3	208.3
67.5°	185.0	180.1	183.1	181.3	181.3
70°	151.9	148.8	153.1	153.1	152.5
72.5°	121.3	121.9	127.4	127.4	128.0
75°	92.5	96.8	102.3	102.9	102.9
77.5°	66.2	73.5	79.6	79.6	79.6
80°	44.1	52.7	58.2	59.4	58.8
82.5°	26.3	35.5	39.8	41.0	40.4
85°	13.5	20.8	24.5	25.1	24.5
87.5°	4.9	10.4	12.3	12.3	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)