

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



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: P1036260

Luminaire Tested: SQ4R-PP3-050D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P563482)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PP3-050D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 500 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

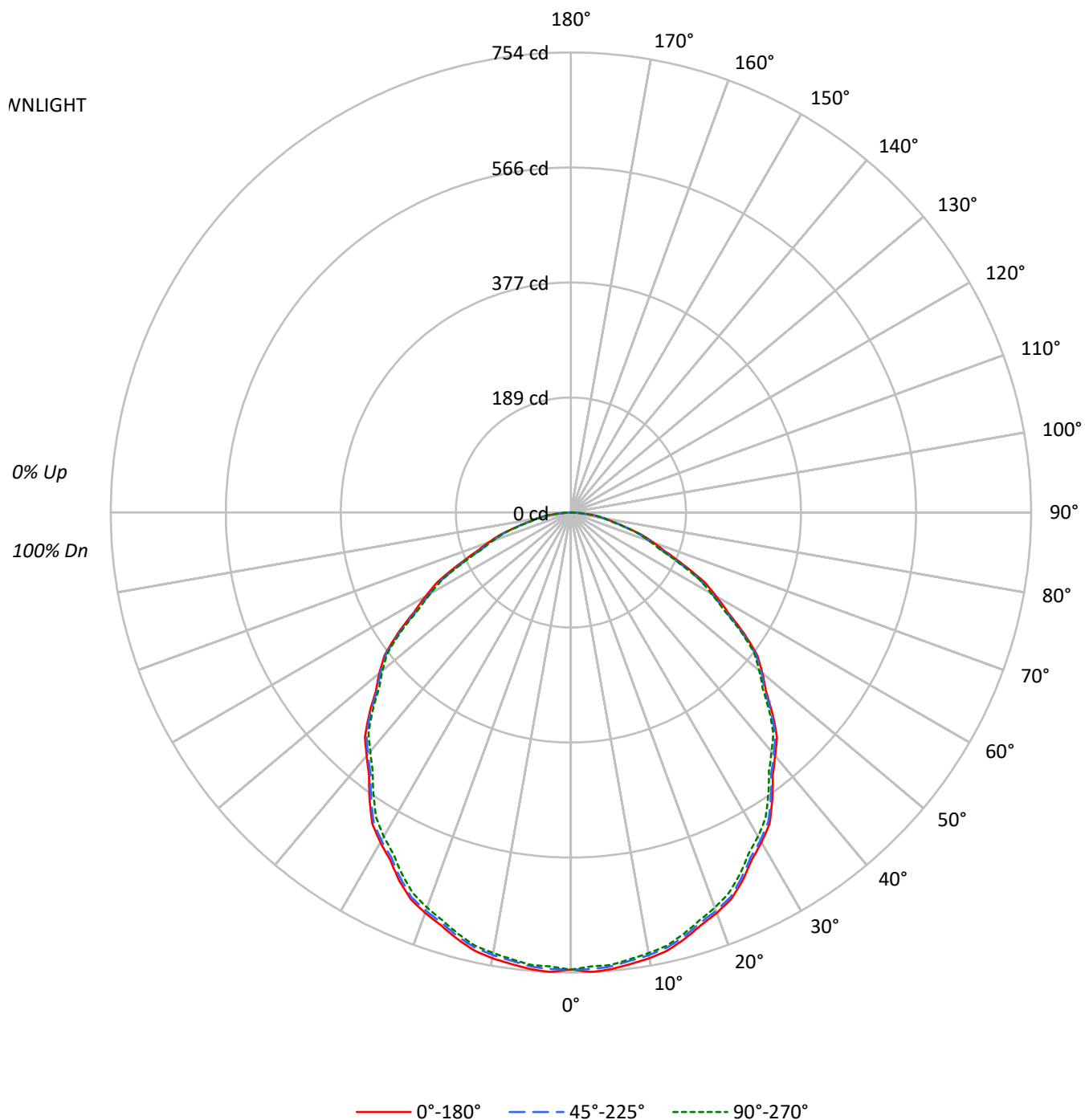
Lumens per Lamp: N/A
Luminaire Lumens: 1917.0 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 16.8
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	109	105	101	97	107	103	99	96	98	95	93		95	92	90		91
2	100	92	86	80	97	90	84	79	87	82	77		84	79	76		81
3	92	81	74	67	89	80	73	67	77	71	66		74	69	64		72
4	84	72	64	57	82	71	63	57	69	62	56		66	60	56		64
5	77	65	56	50	75	64	56	49	62	54	49		60	53	48		58
6	72	59	50	44	70	58	49	43	56	49	43		54	48	43		53
7	66	53	45	39	65	52	44	39	51	44	38		49	43	38		48
8	62	49	40	35	60	48	40	34	47	39	34		45	39	34		44
9	58	45	37	31	56	44	36	31	43	36	31		42	35	31		41
10	54	41	34	28	53	41	33	28	40	33	28		39	33	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6910	6910	6910
5°	6961	6918	6894
10°	6950	6901	6870
15°	6904	6866	6828
20°	6857	6819	6768
25°	6776	6730	6663
30°	6651	6616	6532
35°	6477	6432	6351
40°	6269	6229	6158
45°	6099	6055	5995
50°	5879	5842	5784
55°	5575	5501	5459
60°	5074	4930	4906
65°	4473	4285	4270
70°	3860	3701	3701
75°	3326	3276	3226
80°	2928	2965	2890
85°	2287	2509	2509

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 6099 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.8	3.7
10°-20°	202.2	10.5
20°-30°	302.9	15.8
30°-40°	355.3	18.5
40°-50°	356.4	18.6
50°-60°	304.0	15.9
60°-70°	198.3	10.3
70°-80°	99.5	5.2
80°-90°	27.5	1.4
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°	576.0	30.0
0°-40°	931.3	48.6
0°-60°	1591.7	83.0
0°-90°	1917.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1917.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	749	749	749	749	749	
5°	752	745	747	744	744	71
15°	723	716	719	716	715	204
25°	666	658	661	655	654	306
35°	575	569	571	564	564	359
45°	467	464	464	460	460	360
55°	347	345	342	340	339	308
65°	205	201	196	195	196	204
75°	93	93	92	91	90	101
85°	22	24	24	24	24	26
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	749.0	749.0	749.0	749.0	749.0
2.5°	753.7	747.6	749.0	747.9	744.8
5°	751.6	744.6	747.0	744.4	744.4
7.5°	746.5	738.8	741.2	738.6	738.5
10°	741.8	734.1	736.6	733.9	733.3
12.5°	735.0	727.3	730.2	727.1	727.0
15°	722.8	715.6	718.8	716.1	714.8
17.5°	709.0	701.3	705.0	701.4	700.8
20°	698.4	690.7	694.5	689.3	689.3
22.5°	685.9	678.2	682.5	675.6	675.6
25°	665.6	657.9	661.1	655.1	654.5
27.5°	641.6	634.0	637.3	630.5	630.4
30°	624.3	617.2	621.0	613.8	613.1
32.5°	605.4	598.8	601.6	594.3	593.6
35°	575.1	569.3	571.1	564.5	563.9
37.5°	543.1	537.3	539.3	533.6	533.4
40°	520.5	516.7	517.2	512.6	511.3
42.5°	499.6	495.2	495.7	491.1	490.9
45°	467.4	464.1	464.1	459.5	459.5
47.5°	433.3	430.8	430.1	426.2	426.1
50°	409.6	407.7	407.0	403.7	403.0
52.5°	384.9	384.0	381.8	379.0	378.9
55°	346.6	345.3	342.0	340.0	339.4
57.5°	305.0	302.4	298.7	295.9	296.3
60°	275.0	272.4	267.2	265.9	265.9
62.5°	246.2	243.1	237.8	236.0	237.0
65°	204.9	201.0	196.3	195.0	195.6
67.5°	167.3	163.8	158.7	158.7	158.2
70°	143.1	141.1	137.2	137.2	137.2
72.5°	121.6	120.6	117.8	117.7	117.3
75°	93.3	93.3	91.9	91.2	90.5
77.5°	69.8	70.1	69.5	68.8	67.6
80°	55.1	56.5	55.8	55.1	54.4
82.5°	41.5	42.8	42.7	41.5	41.3
85°	21.6	23.5	23.7	23.7	23.7
87.5°	5.8	7.8	8.4	8.4	8.9
90°	0.0	0.0	0.0	0.0	0.0

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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	17.80	19.39	18.17	19.70	20.02	17.64	19.23	18.00	19.54	19.85
	3H	19.12	20.54	19.49	20.87	21.23	18.91	20.34	19.29	20.67	21.03
	4H	19.60	20.94	20.00	21.29	21.67	19.40	20.74	19.80	21.09	21.47
	6H	19.92	21.16	20.33	21.52	21.91	19.72	20.96	20.13	21.33	21.72
	8H	20.04	21.22	20.47	21.61	22.01	19.85	21.03	20.27	21.42	21.82
	12H	20.11	21.24	20.54	21.63	22.05	19.93	21.06	20.36	21.45	21.88
4H	2H	18.27	19.61	18.67	19.96	20.34	18.14	19.48	18.54	19.83	20.20
	3H	19.81	20.92	20.22	21.32	21.72	19.64	20.75	20.05	21.15	21.55
	4H	20.40	21.41	20.83	21.82	22.26	20.23	21.24	20.66	21.65	22.09
	6H	20.84	21.71	21.29	22.16	22.61	20.67	21.54	21.12	21.99	22.44
	8H	21.01	21.83	21.47	22.27	22.74	20.85	21.67	21.31	22.11	22.57
	12H	21.12	21.86	21.60	22.33	22.80	20.97	21.71	21.45	22.18	22.65
8H	4H	20.61	21.43	21.07	21.87	22.34	20.45	21.27	20.91	21.71	22.18
	6H	21.16	21.84	21.65	22.33	22.80	21.00	21.68	21.50	22.17	22.65
	8H	21.41	22.02	21.92	22.53	23.01	21.26	21.87	21.77	22.37	22.86
	12H	21.59	22.13	22.09	22.62	23.18	21.45	21.99	21.96	22.48	23.05
12H	4H	20.62	21.36	21.10	21.83	22.31	20.47	21.21	20.95	21.68	22.15
	6H	21.20	21.81	21.71	22.32	22.80	21.05	21.66	21.56	22.17	22.65
	8H	21.50	22.04	22.01	22.54	23.10	21.36	21.90	21.87	22.39	22.95