

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: P1036271

Luminaire Tested: SQ4R-PP3-075D-B2750-1D-UNV-W2A_4000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036271
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-PP3-075D-B2750-1D-UNV-W2A_4000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

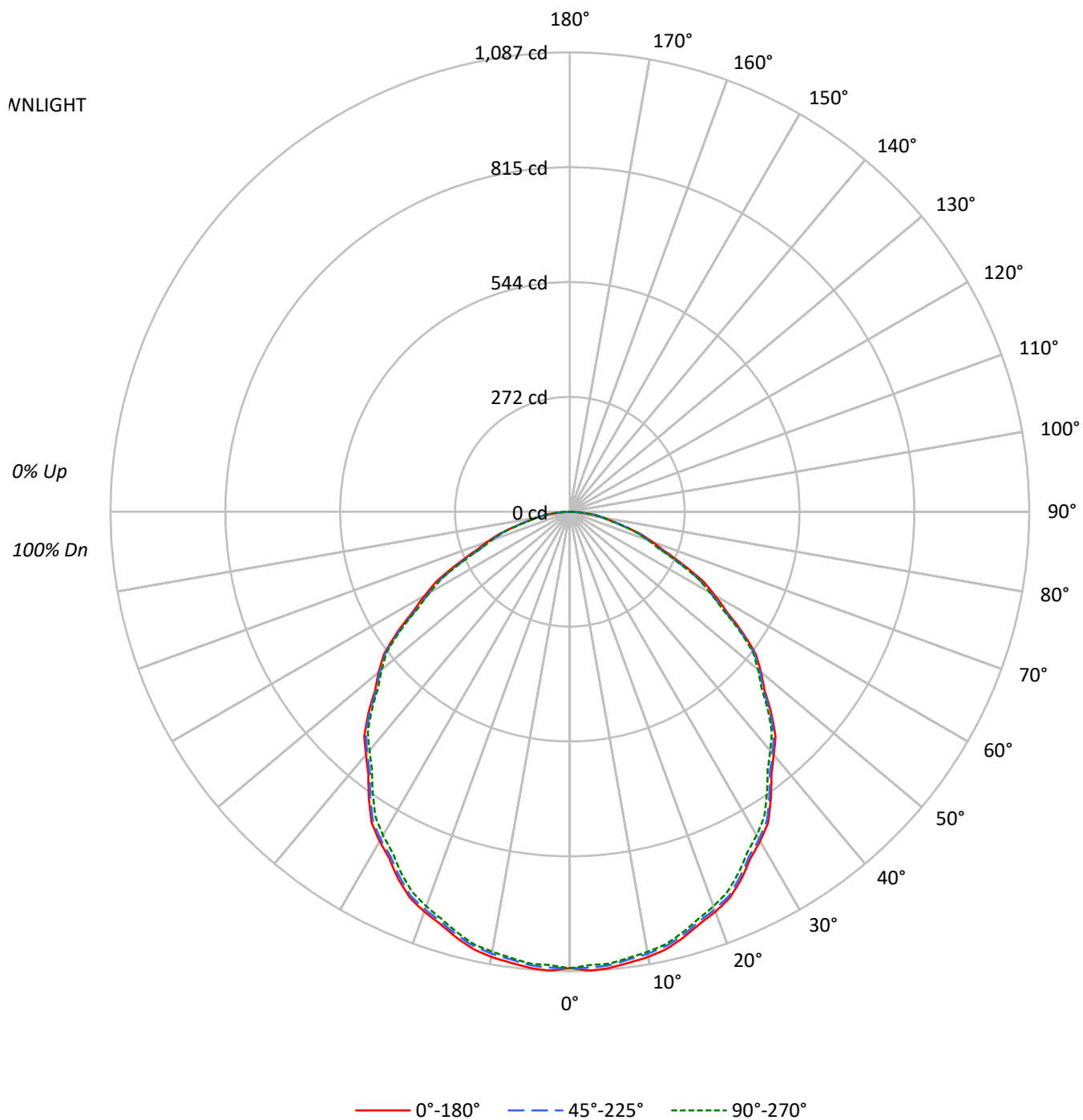
Lumens per Lamp: N/A
Luminaire Lumens: 2763.8 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 25.6
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°	9963	9963	9963
5°	10036	9974	9938
10°	10020	9948	9904
15°	9953	9898	9844
20°	9887	9830	9756
25°	9770	9703	9607
30°	9589	9538	9417
35°	9337	9274	9156
40°	9038	8981	8880
45°	8793	8730	8644
50°	8476	8423	8341
55°	8036	7933	7872
60°	7316	7110	7073
65°	6449	6178	6156
70°	5562	5336	5336
75°	4791	4723	4652
80°	4224	4272	4171
85°	3303	3610	3610

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8793 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.1	3.7
10°-20°	291.6	10.5
20°-30°	436.7	15.8
30°-40°	512.2	18.5
40°-50°	513.8	18.6
50°-60°	438.4	15.9
60°-70°	285.9	10.3
70°-80°	143.4	5.2
80°-90°	39.7	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°	830.4	30.0
0°-40°	1342.6	48.6
0°-60°	2294.8	83.0
0°-90°	2763.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2763.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1080	1080	1080	1080	1080	
5°	1084	1074	1077	1073	1073	103
15°	1042	1032	1036	1032	1031	294
25°	960	948	953	944	944	441
35°	829	821	823	814	813	518
45°	674	669	669	662	662	519
55°	500	498	493	490	489	444
65°	295	290	283	281	282	295
75°	134	134	132	132	130	146
85°	31	34	34	34	34	38
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1079.9	1079.9	1079.9	1079.9	1079.9
2.5°	1086.6	1077.8	1079.9	1078.3	1073.8
5°	1083.6	1073.5	1076.9	1073.1	1073.1
7.5°	1076.2	1065.2	1068.6	1064.9	1064.7
10°	1069.5	1058.3	1061.9	1058.0	1057.2
12.5°	1059.7	1048.5	1052.8	1048.2	1048.0
15°	1042.0	1031.8	1036.3	1032.4	1030.6
17.5°	1022.1	1011.0	1016.5	1011.2	1010.3
20°	1007.0	995.8	1001.2	993.7	993.7
22.5°	988.8	977.7	983.9	974.0	974.0
25°	959.7	948.5	953.1	944.4	943.7
27.5°	925.1	914.1	918.9	909.1	908.9
30°	900.1	889.8	895.3	884.9	883.9
32.5°	872.8	863.3	867.3	856.8	855.9
35°	829.0	820.8	823.4	813.9	812.9
37.5°	783.1	774.6	777.5	769.3	769.0
40°	750.4	744.9	745.7	739.0	737.3
42.5°	720.2	713.9	714.7	708.0	707.7
45°	673.9	669.1	669.1	662.5	662.5
47.5°	624.7	621.1	620.1	614.5	614.4
50°	590.5	587.7	586.8	582.0	581.1
52.5°	555.0	553.6	550.4	546.5	546.3
55°	499.6	497.8	493.2	490.2	489.4
57.5°	439.8	436.0	430.7	426.6	427.2
60°	396.5	392.8	385.3	383.3	383.3
62.5°	354.9	350.5	342.9	340.2	341.7
65°	295.4	289.7	283.0	281.1	282.0
67.5°	241.2	236.1	228.8	228.8	228.1
70°	206.2	203.5	197.8	197.8	197.8
72.5°	175.2	173.9	169.9	169.7	169.0
75°	134.4	134.4	132.5	131.5	130.5
77.5°	100.7	101.0	100.2	99.2	97.4
80°	79.5	81.4	80.4	79.5	78.5
82.5°	59.9	61.6	61.5	59.9	59.6
85°	31.2	33.9	34.1	34.1	34.1
87.5°	8.3	11.2	12.1	12.1	12.9
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	19.07	20.66	19.44	20.97	21.29	18.91	20.50	19.28	20.81	21.13
	3H	20.39	21.81	20.76	22.14	22.50	20.19	21.61	20.56	21.94	22.30
	4H	20.87	22.21	21.27	22.56	22.94	20.67	22.01	21.07	22.36	22.74
	6H	21.19	22.43	21.60	22.79	23.19	20.99	22.23	21.40	22.60	22.99
	8H	21.31	22.49	21.74	22.88	23.28	21.12	22.30	21.54	22.69	23.09
	12H	21.38	22.52	21.81	22.90	23.33	21.20	22.34	21.63	22.72	23.15
4H	2H	19.54	20.88	19.94	21.23	21.61	19.41	20.75	19.81	21.10	21.47
	3H	21.08	22.19	21.49	22.59	22.99	20.91	22.02	21.32	22.42	22.82
	4H	21.67	22.68	22.10	23.09	23.53	21.50	22.51	21.93	22.92	23.36
	6H	22.11	22.99	22.56	23.43	23.88	21.94	22.82	22.39	23.26	23.71
	8H	22.28	23.10	22.74	23.54	24.01	22.12	22.94	22.58	23.38	23.85
	12H	22.39	23.13	22.87	23.60	24.07	22.24	22.98	22.72	23.45	23.92
8H	4H	21.88	22.70	22.34	23.14	23.61	21.72	22.54	22.18	22.99	23.45
	6H	22.43	23.11	22.92	23.60	24.07	22.28	22.95	22.77	23.44	23.92
	8H	22.68	23.29	23.19	23.80	24.28	22.53	23.14	23.04	23.65	24.13
	12H	22.86	23.40	23.36	23.89	24.45	22.72	23.26	23.23	23.75	24.32
12H	4H	21.89	22.63	22.37	23.11	23.58	21.74	22.48	22.22	22.95	23.42
	6H	22.47	23.08	22.98	23.59	24.07	22.32	22.93	22.83	23.44	23.93
	8H	22.77	23.31	23.28	23.81	24.37	22.63	23.17	23.14	23.66	24.22