

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: P1036332

Luminaire Tested: SQ4R-PW1-075D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564826)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PW1-075D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

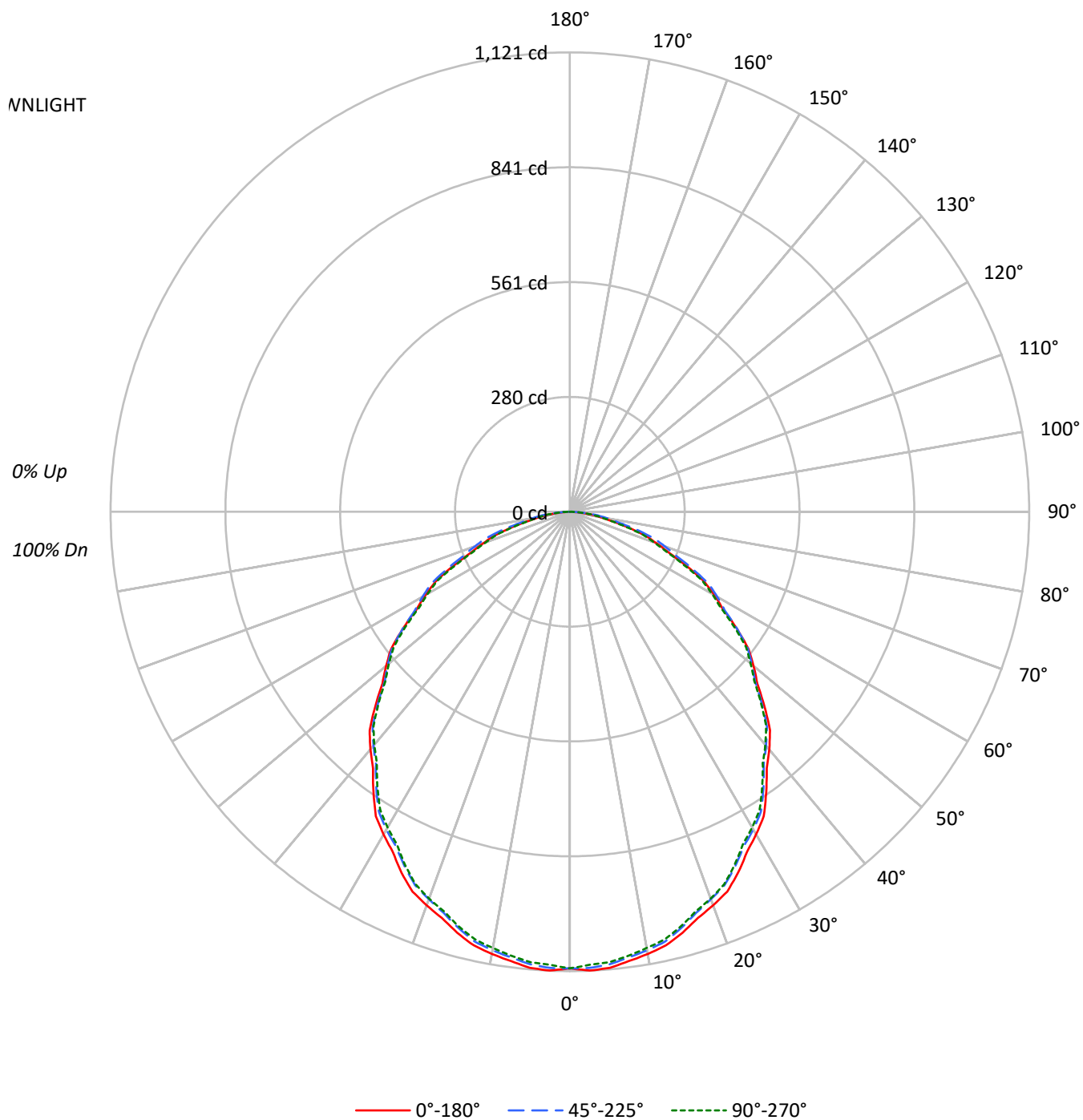
Lumens per Lamp: N/A
Luminaire Lumens: 2835.0 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1036332

CATALOG NUMBER: SQ4R-PW1-075D-B2750-1D-UNV-W2A_2700K

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	102	99	95	98	95	92		94	92	89		91
2	100	92	85	80	97	90	84	79	86	81	77		83	79	75		80
3	91	81	73	67	89	79	72	66	76	70	65		74	68	64		71
4	84	72	63	57	81	71	63	56	68	61	56		66	60	55		64
5	77	64	56	49	75	63	55	49	61	54	48		59	53	48		57
6	71	58	49	43	69	57	49	43	55	48	42		54	47	42		52
7	66	53	44	38	64	52	44	38	50	43	38		49	42	37		48
8	62	48	40	34	60	48	40	34	46	39	34		45	38	34		44
9	58	44	36	31	56	44	36	31	43	35	31		42	35	30		41
10	54	41	33	28	53	40	33	28	39	33	28		39	32	28		38

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10280	10280	10280
5°	10347	10265	10220
10°	10264	10182	10126
15°	10156	10043	10005
20°	10034	9879	9862
25°	9894	9715	9683
30°	9685	9539	9476
35°	9410	9276	9221
40°	9117	8974	8939
45°	8762	8647	8606
50°	8400	8329	8270
55°	8006	8006	7880
60°	7519	7663	7392
65°	6879	7222	6709
70°	6061	6647	5908
75°	5183	5950	5037
80°	4017	5010	4075
85°	2594	3853	3419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 8762 cd/sqm

TEST NUMBER: P1036332

CATALOG NUMBER: SQ4R-PW1-075D-B2750-1D-UNV-W2A_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.9	3.7
10°-20°	296.2	10.4
20°-30°	439.4	15.5
30°-40°	514.2	18.1
40°-50°	511.9	18.1
50°-60°	442.0	15.6
60°-70°	318.2	11.2
70°-80°	166.8	5.9
80°-90°	41.4	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°	840.6	29.6
0°-40°	1354.7	47.8
0°-60°	2308.6	81.4
0°-90°	2835.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2835.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1117	1105	1108	1105	1104	106
15°	1063	1050	1051	1049	1048	300
25°	972	956	954	948	951	447
35°	836	824	824	816	819	522
45°	672	666	663	661	660	518
55°	498	497	498	491	490	444
65°	315	325	331	318	307	312
75°	145	159	167	156	141	156
85°	24	32	36	34	32	33
90°	0	0	0	0	0	

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CATALOG NUMBER: SQ4R-PW1-075D-B2750-1D-UNV-W2A_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.2	1114.2	1114.2	1114.2	1114.2
2.5°	1120.6	1111.3	1114.2	1111.8	1106.4
5°	1117.2	1104.7	1108.4	1105.4	1103.5
7.5°	1105.9	1094.4	1096.9	1093.9	1092.7
10°	1095.6	1084.1	1086.8	1082.9	1080.9
12.5°	1083.9	1071.5	1074.3	1070.2	1069.2
15°	1063.3	1049.7	1051.4	1049.4	1047.5
17.5°	1039.2	1025.7	1025.9	1022.8	1022.3
20°	1022.0	1007.6	1006.2	1002.3	1004.4
22.5°	1003.2	988.0	986.6	981.2	983.9
25°	971.9	955.6	954.3	948.4	951.2
27.5°	935.8	919.8	919.8	911.5	914.5
30°	909.1	893.7	895.4	885.6	889.5
32.5°	880.8	867.0	867.8	858.2	862.0
35°	835.5	824.0	823.6	815.8	818.7
37.5°	789.1	779.0	777.3	772.9	773.5
40°	757.0	748.3	745.1	742.2	742.2
42.5°	723.1	715.3	712.1	709.9	709.2
45°	671.5	665.7	662.7	660.7	659.6
47.5°	620.4	615.1	612.4	611.1	610.1
50°	585.2	581.3	580.3	577.2	576.2
52.5°	549.8	547.5	546.4	542.7	541.7
55°	497.7	496.9	497.7	490.9	489.9
57.5°	443.5	445.1	448.3	439.0	436.6
60°	407.5	411.2	415.3	404.5	400.6
62.5°	370.4	376.7	382.3	369.8	364.3
65°	315.1	324.7	330.8	317.8	307.3
67.5°	261.8	273.6	280.9	267.0	255.0
70°	224.7	238.3	246.4	232.3	219.0
72.5°	192.6	207.6	214.2	200.9	187.5
75°	145.4	158.7	166.9	155.7	141.3
77.5°	103.1	115.8	122.5	112.9	100.9
80°	75.6	89.0	94.3	86.1	76.7
82.5°	53.6	64.8	68.4	63.5	56.9
85°	24.5	32.2	36.4	34.4	32.3
87.5°	6.3	11.7	14.9	14.9	15.7
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	19.11	20.71	19.47	21.02	21.34	19.01	20.61	19.37	20.92	21.24
	3H	20.66	22.11	21.04	22.43	22.80	20.54	21.98	20.91	22.31	22.67
	4H	21.21	22.57	21.61	22.92	23.30	21.08	22.43	21.48	22.78	23.16
	6H	21.51	22.77	21.92	23.13	23.52	21.37	22.63	21.79	23.00	23.39
	8H	21.60	22.80	22.02	23.19	23.59	21.48	22.68	21.90	23.07	23.47
	12H	21.64	22.79	22.07	23.17	23.60	21.54	22.69	21.97	23.07	23.50
4H	2H	19.75	21.11	20.15	21.45	21.83	19.67	21.03	20.07	21.38	21.75
	3H	21.55	22.68	21.96	23.08	23.48	21.44	22.57	21.85	22.97	23.37
	4H	22.21	23.23	22.64	23.65	24.08	22.09	23.11	22.52	23.52	23.96
	6H	22.61	23.50	23.07	23.95	24.40	22.49	23.38	22.95	23.82	24.28
	8H	22.74	23.58	23.20	24.02	24.49	22.63	23.47	23.09	23.91	24.38
	12H	22.81	23.56	23.29	24.03	24.50	22.73	23.48	23.21	23.95	24.42
8H	4H	22.48	23.32	22.95	23.76	24.23	22.38	23.21	22.84	23.65	24.12
	6H	23.01	23.70	23.50	24.19	24.66	22.89	23.59	23.39	24.07	24.55
	8H	23.21	23.83	23.72	24.33	24.82	23.11	23.73	23.62	24.23	24.72
	12H	23.33	23.87	23.83	24.36	24.93	23.26	23.81	23.77	24.30	24.86
12H	4H	22.50	23.25	22.98	23.73	24.20	22.40	23.15	22.88	23.62	24.09
	6H	23.05	23.67	23.56	24.18	24.66	22.94	23.56	23.45	24.07	24.56
	8H	23.31	23.85	23.81	24.34	24.91	23.21	23.76	23.72	24.25	24.81