

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: P1036268

Luminaire Tested: SQ4R-PP3-075D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036268
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_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

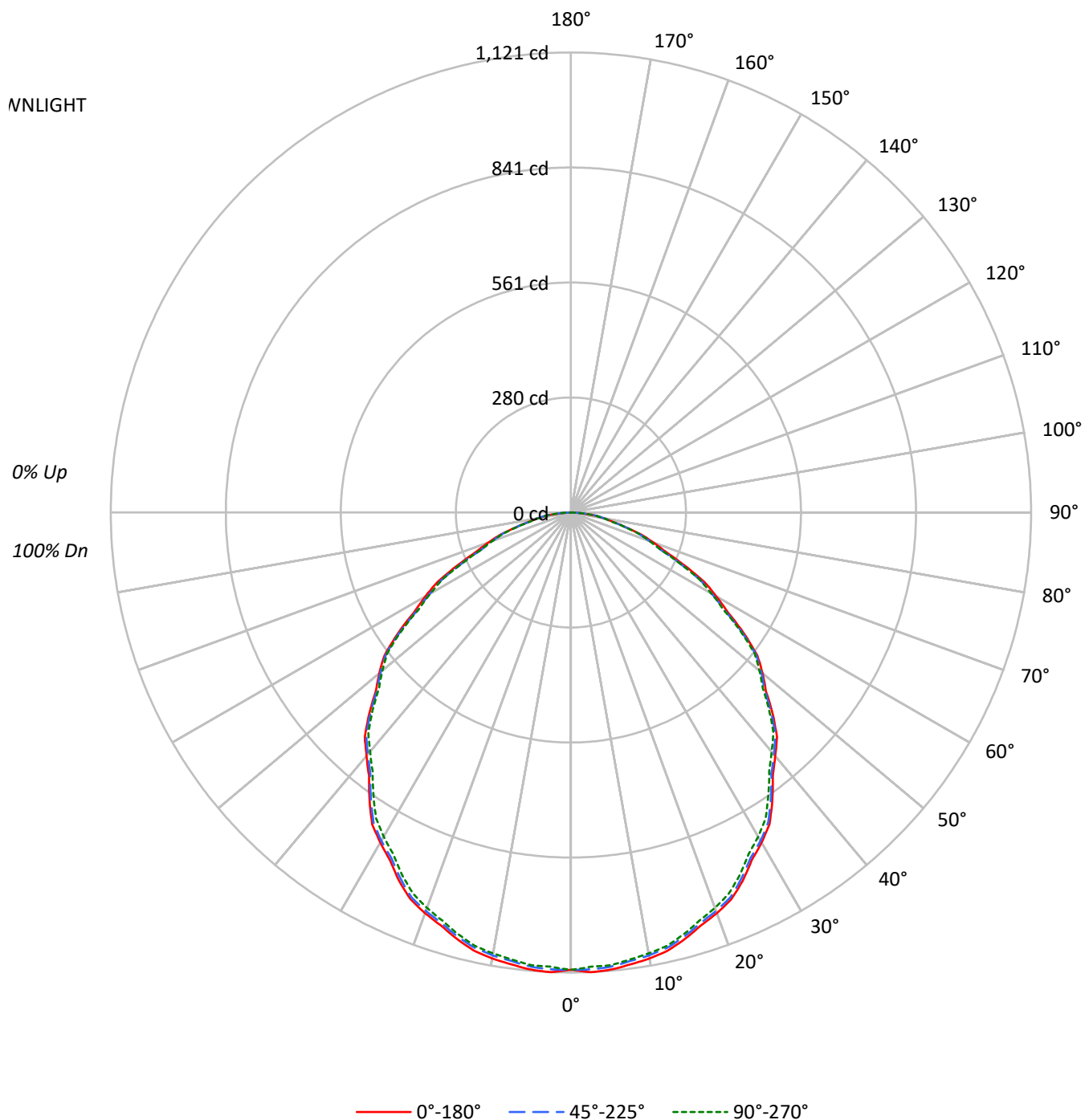
Lumens per Lamp: N/A
Luminaire Lumens: 2852.0 lumens
Efficiency: N/A
Efficacy: 111.4 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	10282	10282	10282
5°	10356	10292	10256
10°	10339	10266	10220
15°	10271	10215	10158
20°	10202	10144	10068
25°	10081	10012	9913
30°	9895	9843	9717
35°	9636	9570	9449
40°	9327	9268	9163
45°	9073	9010	8919
50°	8747	8691	8606
55°	8294	8186	8123
60°	7551	7337	7298
65°	6654	6375	6353
70°	5740	5506	5506
75°	4944	4873	4802
80°	4357	4410	4304
85°	3409	3726	3726

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9073 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.4	3.7
10°-20°	300.9	10.5
20°-30°	450.7	15.8
30°-40°	528.6	18.5
40°-50°	530.2	18.6
50°-60°	452.3	15.9
60°-70°	295.0	10.3
70°-80°	148.0	5.2
80°-90°	41.0	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°	856.9	30.0
0°-40°	1385.5	48.6
0°-60°	2368.0	83.0
0°-90°	2852.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2852.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1114	1114	1114	1114	1114	
5°	1118	1108	1111	1107	1107	106
15°	1075	1065	1069	1065	1064	303
25°	990	979	984	975	974	455
35°	856	847	850	840	839	534
45°	695	690	690	684	684	535
55°	516	514	509	506	505	458
65°	305	299	292	290	291	304
75°	139	139	137	136	135	150
85°	32	35	35	35	35	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1114.4	1114.4	1114.4	1114.4	1114.4
2.5°	1121.3	1112.2	1114.4	1112.7	1108.1
5°	1118.2	1107.8	1111.3	1107.4	1107.4
7.5°	1110.6	1099.2	1102.7	1098.9	1098.7
10°	1103.6	1092.1	1095.8	1091.8	1090.9
12.5°	1093.5	1082.0	1086.4	1081.7	1081.5
15°	1075.3	1064.7	1069.4	1065.4	1063.5
17.5°	1054.7	1043.3	1048.9	1043.5	1042.6
20°	1039.1	1027.6	1033.2	1025.4	1025.4
22.5°	1020.4	1008.9	1015.3	1005.1	1005.1
25°	990.3	978.8	983.5	974.6	973.8
27.5°	954.6	943.3	948.2	938.1	937.9
30°	928.8	918.2	923.9	913.1	912.1
32.5°	900.7	890.9	895.0	884.2	883.2
35°	855.5	847.0	849.7	839.9	838.9
37.5°	808.1	799.3	802.3	793.9	793.6
40°	774.4	768.7	769.5	762.6	760.8
42.5°	743.2	736.7	737.5	730.6	730.3
45°	695.4	690.5	690.5	683.6	683.6
47.5°	644.6	640.9	639.9	634.1	634.0
50°	609.4	606.5	605.5	600.6	599.6
52.5°	572.7	571.3	568.0	563.9	563.7
55°	515.6	513.7	508.9	505.8	505.0
57.5°	453.8	449.9	444.4	440.2	440.8
60°	409.2	405.3	397.6	395.5	395.5
62.5°	366.2	361.7	353.8	351.1	352.6
65°	304.8	299.0	292.0	290.1	291.0
67.5°	248.9	243.6	236.1	236.1	235.4
70°	212.8	210.0	204.1	204.1	204.1
72.5°	180.8	179.5	175.3	175.1	174.4
75°	138.7	138.7	136.7	135.7	134.7
77.5°	103.9	104.2	103.4	102.4	100.5
80°	82.0	84.0	83.0	82.0	81.0
82.5°	61.8	63.6	63.5	61.8	61.5
85°	32.2	35.0	35.2	35.2	35.2
87.5°	8.6	11.6	12.5	12.5	13.3
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	19.18	20.77	19.55	21.08	21.40	19.02	20.61	19.38	20.92	21.23
	3H	20.50	21.92	20.87	22.25	22.61	20.29	21.72	20.67	22.05	22.41
	4H	20.98	22.32	21.38	22.67	23.05	20.78	22.12	21.18	22.47	22.85
	6H	21.30	22.54	21.71	22.90	23.29	21.10	22.34	21.51	22.71	23.10
	8H	21.42	22.60	21.85	22.99	23.39	21.23	22.41	21.65	22.80	23.20
	12H	21.49	22.62	21.92	23.01	23.43	21.31	22.44	21.74	22.83	23.26
4H	2H	19.65	20.99	20.05	21.34	21.72	19.52	20.86	19.92	21.21	21.58
	3H	21.19	22.30	21.60	22.70	23.10	21.02	22.13	21.43	22.53	22.93
	4H	21.78	22.79	22.21	23.20	23.64	21.61	22.62	22.04	23.03	23.47
	6H	22.22	23.09	22.67	23.54	23.99	22.05	22.92	22.50	23.37	23.82
	8H	22.39	23.21	22.85	23.65	24.12	22.23	23.05	22.69	23.49	23.96
	12H	22.50	23.24	22.98	23.71	24.18	22.35	23.09	22.83	23.56	24.03
8H	4H	21.99	22.81	22.45	23.25	23.72	21.83	22.65	22.29	23.09	23.56
	6H	22.54	23.22	23.03	23.71	24.18	22.38	23.06	22.88	23.55	24.03
	8H	22.79	23.40	23.30	23.91	24.39	22.64	23.25	23.15	23.76	24.24
	12H	22.96	23.51	23.47	24.00	24.56	22.83	23.37	23.34	23.86	24.43
12H	4H	22.00	22.74	22.48	23.21	23.68	21.85	22.59	22.33	23.06	23.53
	6H	22.58	23.19	23.09	23.70	24.18	22.43	23.04	22.94	23.55	24.03
	8H	22.88	23.42	23.39	23.91	24.48	22.74	23.28	23.25	23.77	24.33