

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: P1036301

Luminaire Tested: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036301
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P564154)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

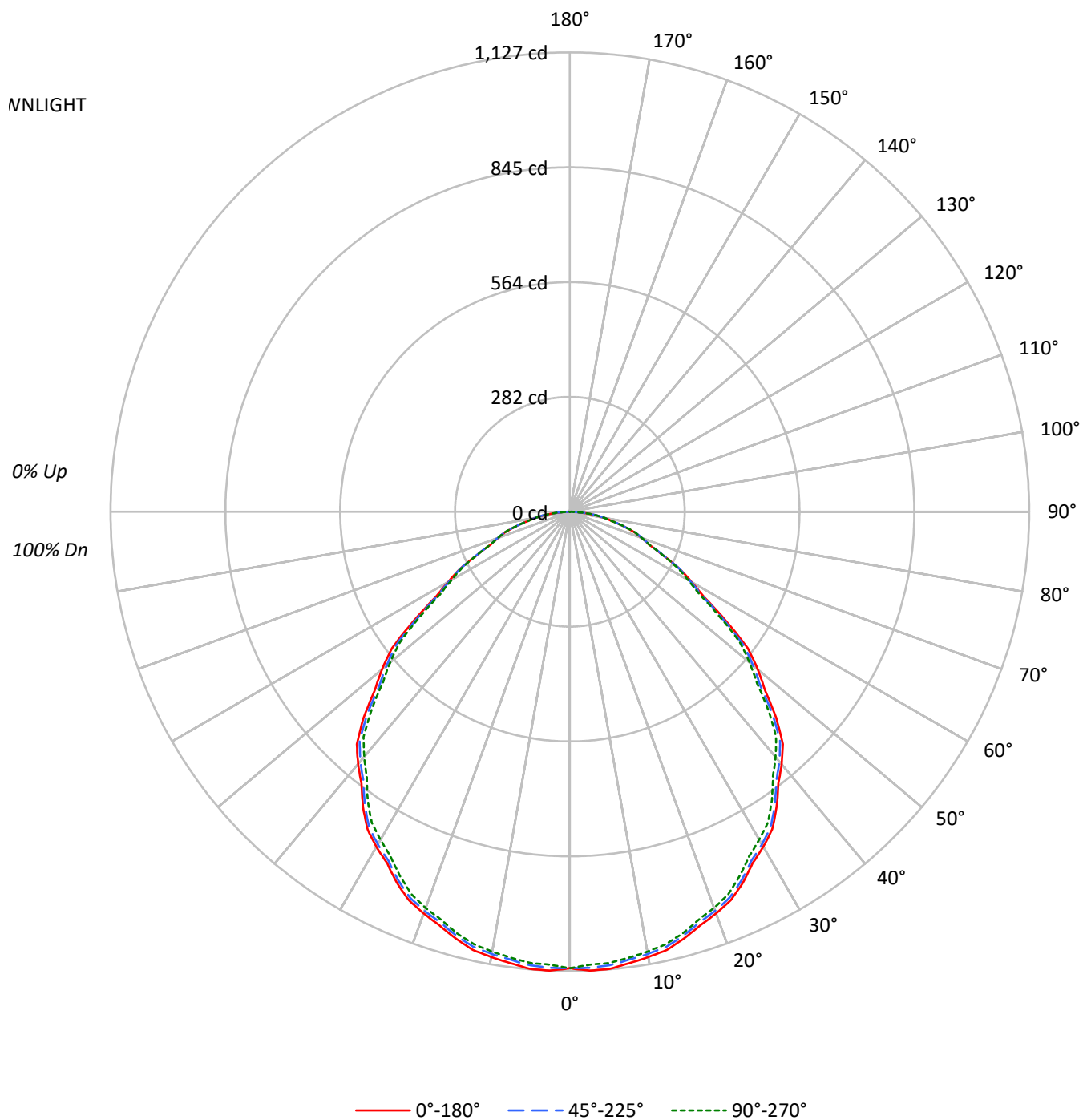
Lumens per Lamp: N/A
Luminaire Lumens: 2799.7 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036301

CATALOG NUMBER: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1036301

CATALOG NUMBER: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

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	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	110	105	101	98	107	103	99	96	99	96	93	95	92	90	91	89	87	85		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	72		
3	92	82	74	68	90	80	73	68	78	71	66	75	70	65	72	68	64	62		
4	85	73	65	58	82	72	64	58	69	63	57	67	61	56	65	60	56	54		
5	78	66	57	51	76	65	57	50	63	55	50	61	54	49	59	53	49	47		
6	72	59	51	45	70	58	50	44	57	49	44	55	49	44	53	48	43	41		
7	67	54	46	40	65	53	45	39	52	44	39	50	44	39	49	43	39	37		
8	63	49	41	35	61	49	41	35	47	40	35	46	40	35	45	39	35	33		
9	58	45	37	32	57	45	37	32	44	37	32	43	36	32	42	36	31	30		
10	55	42	34	29	54	41	34	29	40	34	29	40	33	29	39	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10332	10332	10332
5°	10426	10346	10292
10°	10393	10320	10266
15°	10348	10282	10226
20°	10295	10229	10153
25°	10222	10155	10036
30°	10111	10041	9897
35°	9963	9875	9735
40°	9734	9630	9457
45°	9340	9175	8986
50°	8639	8431	8265
55°	7539	7372	7218
60°	6355	6301	6176
65°	5497	5519	5475
70°	5044	5071	5071
75°	4848	4848	4884
80°	4559	4612	4559
85°	3673	4086	4086

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9340 cd/sqm

TEST NUMBER: P1036301

CATALOG NUMBER: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	3.8
10°-20°	303.0	10.8
20°-30°	457.0	16.3
30°-40°	544.6	19.5
40°-50°	536.9	19.2
50°-60°	410.3	14.7
60°-70°	253.9	9.1
70°-80°	144.2	5.2
80°-90°	43.9	1.6
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°	866.0	30.9
0°-40°	1410.5	50.4
0°-60°	2357.8	84.2
0°-90°	2799.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2799.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1120	1120	1120	1120	1120	
5°	1126	1113	1117	1113	1111	107
15°	1083	1072	1076	1073	1071	306
25°	1004	992	998	987	986	462
35°	885	874	877	865	864	552
45°	716	706	703	691	689	548
55°	469	461	458	450	449	420
65°	252	250	253	251	251	255
75°	136	136	136	137	137	144
85°	35	36	39	39	39	42
90°	0	0	0	0	0	

TEST NUMBER: P1036301

CATALOG NUMBER: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1119.9	1119.9	1119.9	1119.9	1119.9
2.5°	1126.9	1117.1	1119.9	1117.6	1112.2
5°	1125.7	1113.4	1117.1	1113.0	1111.3
7.5°	1117.1	1104.9	1108.6	1104.6	1103.6
10°	1109.3	1097.9	1101.6	1097.7	1095.8
12.5°	1100.8	1088.8	1093.2	1088.5	1086.6
15°	1083.4	1072.0	1076.5	1072.7	1070.6
17.5°	1064.0	1051.9	1056.5	1052.1	1049.6
20°	1048.6	1037.3	1041.8	1035.1	1034.1
22.5°	1031.6	1020.3	1024.8	1015.8	1015.6
25°	1004.1	991.9	997.5	986.9	985.9
27.5°	971.6	960.2	964.8	954.0	953.0
30°	949.1	937.8	942.5	930.9	929.0
32.5°	923.7	913.2	917.1	905.4	904.3
35°	884.6	874.2	876.8	865.3	864.3
37.5°	840.0	830.6	832.1	819.3	818.5
40°	808.2	799.0	799.6	786.2	785.2
42.5°	773.7	764.3	763.4	750.0	749.0
45°	715.8	706.4	703.2	690.6	688.7
47.5°	649.8	640.4	634.5	624.2	622.9
50°	601.9	592.5	587.4	578.7	575.8
52.5°	550.2	540.8	536.6	528.6	525.8
55°	468.7	461.3	458.3	450.4	448.7
57.5°	391.5	386.4	385.4	378.0	377.2
60°	344.4	341.5	341.5	334.7	334.7
62.5°	304.3	302.1	303.6	299.1	298.4
65°	251.8	249.9	252.8	250.8	250.8
67.5°	210.4	210.4	212.0	211.2	211.2
70°	187.0	187.0	188.0	188.0	188.0
72.5°	166.3	165.6	168.1	168.0	167.3
75°	136.0	136.0	136.0	137.0	137.0
77.5°	105.9	106.1	106.9	106.7	105.9
80°	85.8	86.8	86.8	85.8	85.8
82.5°	65.8	66.7	66.7	66.5	65.8
85°	34.7	36.5	38.6	38.6	38.6
87.5°	9.9	13.0	15.5	15.5	14.6
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036301

CATALOG NUMBER: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3000K

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	18.22	19.78	18.58	20.09	20.41	18.05	19.61	18.41	19.92	20.24
	3H	19.55	20.95	19.93	21.28	21.64	19.45	20.85	19.83	21.18	21.54
	4H	20.15	21.47	20.55	21.82	22.20	20.08	21.40	20.48	21.75	22.12
	6H	20.60	21.82	21.01	22.18	22.58	20.54	21.76	20.95	22.12	22.51
	8H	20.78	21.95	21.21	22.33	22.73	20.72	21.89	21.15	22.28	22.68
	12H	20.89	22.01	21.32	22.39	22.82	20.85	21.96	21.28	22.34	22.77
4H	2H	18.69	20.01	19.09	20.36	20.73	18.55	19.87	18.95	20.22	20.59
	3H	20.29	21.39	20.70	21.79	22.19	20.22	21.32	20.63	21.71	22.12
	4H	21.03	22.02	21.46	22.43	22.87	20.98	21.97	21.41	22.39	22.82
	6H	21.62	22.48	22.07	22.92	23.38	21.58	22.44	22.03	22.88	23.34
	8H	21.86	22.67	22.32	23.11	23.58	21.82	22.63	22.28	23.07	23.54
	12H	22.02	22.74	22.50	23.22	23.69	22.00	22.72	22.48	23.20	23.67
8H	4H	21.30	22.11	21.76	22.55	23.02	21.26	22.07	21.72	22.51	22.98
	6H	22.03	22.70	22.52	23.19	23.67	21.99	22.66	22.49	23.15	23.63
	8H	22.36	22.97	22.88	23.47	23.96	22.33	22.93	22.84	23.44	23.93
	12H	22.60	23.13	23.11	23.62	24.19	22.59	23.13	23.10	23.62	24.18
12H	4H	21.33	22.06	21.81	22.53	23.00	21.29	22.02	21.77	22.49	22.96
	6H	22.09	22.70	22.60	23.20	23.69	22.06	22.66	22.57	23.17	23.66
	8H	22.49	23.02	23.00	23.52	24.08	22.46	22.99	22.97	23.49	24.05