

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: P1036236

Luminaire Tested: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036236
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P562810)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

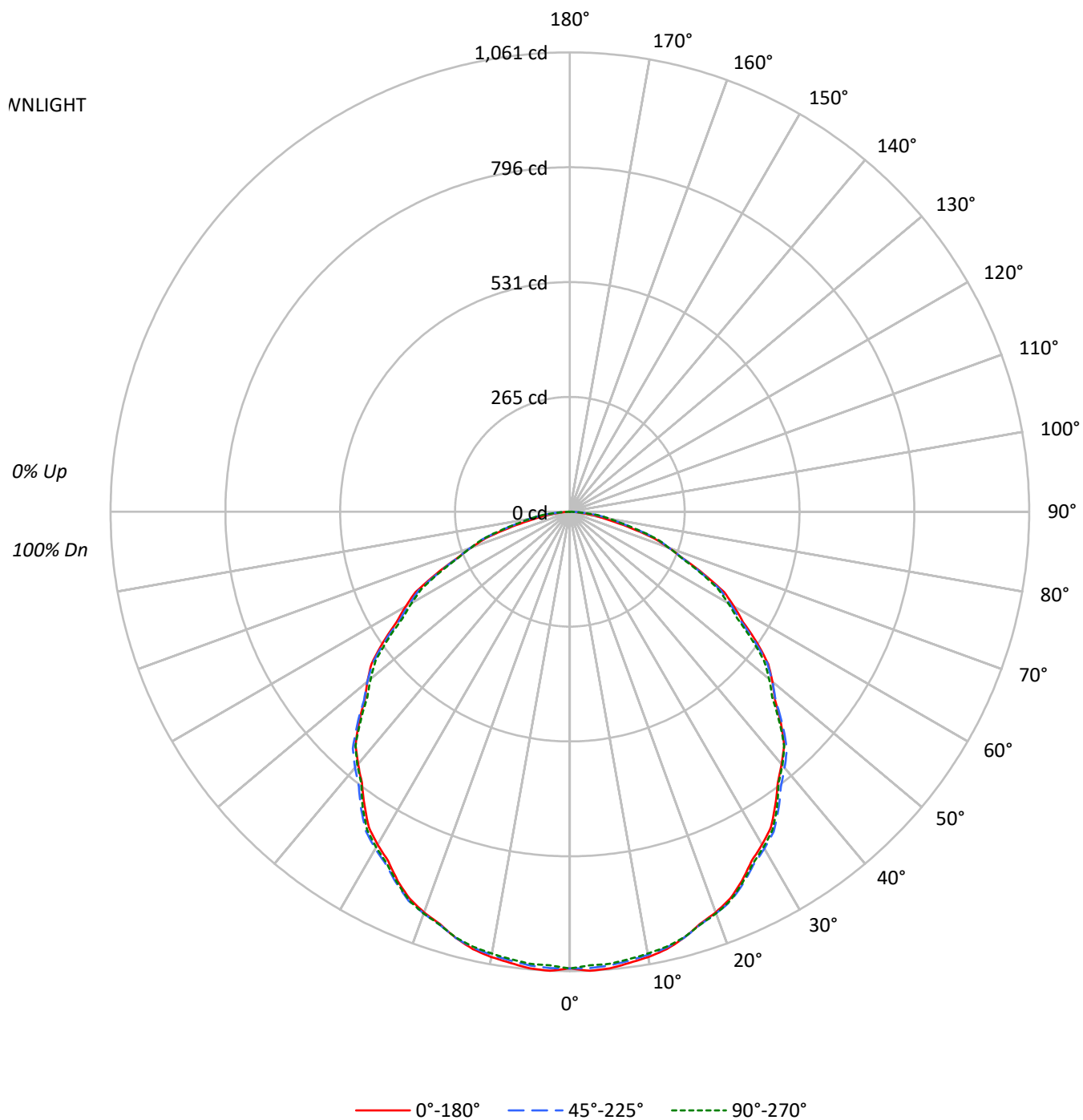
Lumens per Lamp: N/A
Luminaire Lumens: 2879.0 lumens
Efficiency: N/A
Efficacy: 112.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036236

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

Luminous Intensity Polar Plot



TEST NUMBER: P1036236

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

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	100	97	106	102	98	95	98	95	92		94	92	89		91
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9732	9732	9732
5°	9807	9742	9707
10°	9783	9737	9709
15°	9731	9731	9722
20°	9667	9696	9696
25°	9576	9645	9615
30°	9458	9573	9532
35°	9318	9461	9395
40°	9163	9293	9200
45°	8998	9062	8921
50°	8763	8763	8622
55°	8485	8374	8249
60°	8075	7912	7785
65°	7462	7313	7248
70°	6536	6585	6563
75°	5258	5814	5853
80°	3740	4931	4984
85°	2287	4139	4139

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 9062 cd/sqm

TEST NUMBER: P1036236

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.8	3.5
10°-20°	286.5	10.0
20°-30°	433.9	15.1
30°-40°	520.1	18.1
40°-50°	530.4	18.4
50°-60°	463.0	16.1
60°-70°	331.4	11.5
70°-80°	170.7	5.9
80°-90°	43.2	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°	820.2	28.5
0°-40°	1340.3	46.6
0°-60°	2333.6	81.1
0°-90°	2879.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2879.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1055	1055	1055	1055	1055	
5°	1059	1048	1052	1049	1048	101
15°	1019	1010	1019	1019	1018	287
25°	941	934	947	944	944	433
35°	827	825	840	834	834	517
45°	690	688	694	686	684	531
55°	528	521	521	513	513	470
65°	342	334	335	332	332	338
75°	148	154	163	164	164	159
85°	22	33	39	40	39	30
90°	0	0	0	0	0	

TEST NUMBER: P1036236

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1054.8	1054.8	1054.8	1054.8	1054.8
2.5°	1061.2	1051.9	1054.8	1052.5	1048.6
5°	1058.9	1048.2	1051.9	1048.9	1048.1
7.5°	1051.1	1040.7	1045.6	1043.5	1042.5
10°	1044.2	1033.6	1039.3	1037.3	1036.3
12.5°	1034.8	1025.0	1031.4	1029.6	1029.2
15°	1018.8	1010.2	1018.8	1018.8	1017.8
17.5°	998.6	990.8	999.9	1000.6	999.9
20°	984.6	976.0	987.5	986.5	987.5
22.5°	967.4	960.4	972.6	970.1	971.1
25°	940.7	933.9	947.4	944.5	944.5
27.5°	909.0	904.1	918.9	915.7	915.7
30°	887.8	883.1	898.6	894.7	894.7
32.5°	864.4	861.2	876.0	871.3	871.3
35°	827.3	825.3	840.0	834.1	834.1
37.5°	789.0	787.3	800.6	793.5	791.2
40°	760.8	760.0	771.6	763.9	763.9
42.5°	732.7	731.7	742.0	732.6	732.6
45°	689.6	687.6	694.5	685.6	683.7
47.5°	642.5	640.6	644.8	635.2	634.2
50°	610.5	608.5	610.5	601.6	600.7
52.5°	577.7	574.1	574.5	565.7	565.5
55°	527.5	520.8	520.6	512.8	512.8
57.5°	474.3	465.5	466.4	459.6	458.6
60°	437.6	428.0	428.8	422.9	421.9
62.5°	401.6	390.6	392.8	386.2	386.1
65°	341.8	334.2	335.0	332.0	332.0
67.5°	284.4	277.3	282.5	280.2	280.0
70°	242.3	237.4	244.1	244.1	243.3
72.5°	203.2	203.0	211.3	211.3	212.0
75°	147.5	154.2	163.1	164.2	164.2
77.5°	98.5	110.3	120.2	120.5	120.4
80°	70.4	83.7	92.8	94.8	93.8
82.5°	47.6	61.8	69.4	71.2	70.4
85°	21.6	33.0	39.1	40.1	39.1
87.5°	6.2	13.1	15.7	15.7	14.1
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036236

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_2700K

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	19.37	20.99	19.74	21.30	21.62	19.26	20.87	19.62	21.19	21.50
	3H	20.92	22.37	21.29	22.70	23.06	20.86	22.32	21.24	22.64	23.00
	4H	21.43	22.80	21.82	23.14	23.52	21.46	22.83	21.86	23.18	23.55
	6H	21.66	22.93	22.07	23.30	23.69	21.83	23.09	22.24	23.46	23.85
	8H	21.73	22.94	22.15	23.33	23.73	21.96	23.18	22.39	23.56	23.96
	12H	21.75	22.91	22.18	23.29	23.72	22.05	23.21	22.48	23.59	24.02
4H	2H	19.97	21.34	20.37	21.68	22.06	19.88	21.25	20.27	21.59	21.97
	3H	21.72	22.87	22.13	23.27	23.67	21.70	22.84	22.11	23.24	23.64
	4H	22.33	23.37	22.76	23.78	24.22	22.40	23.44	22.83	23.85	24.29
	6H	22.67	23.57	23.13	24.01	24.47	22.88	23.78	23.33	24.22	24.68
	8H	22.77	23.62	23.23	24.06	24.52	23.06	23.91	23.53	24.35	24.82
	12H	22.82	23.58	23.30	24.06	24.53	23.19	23.95	23.67	24.42	24.89
8H	4H	22.59	23.43	23.05	23.87	24.34	22.65	23.49	23.11	23.94	24.40
	6H	23.03	23.73	23.53	24.22	24.69	23.24	23.94	23.73	24.43	24.90
	8H	23.20	23.83	23.71	24.33	24.82	23.50	24.13	24.01	24.63	25.12
	12H	23.30	23.86	23.81	24.35	24.91	23.70	24.25	24.20	24.74	25.30
12H	4H	22.61	23.37	23.09	23.84	24.31	22.67	23.42	23.15	23.90	24.37
	6H	23.08	23.71	23.59	24.21	24.70	23.28	23.90	23.79	24.41	24.90
	8H	23.30	23.86	23.81	24.35	24.91	23.59	24.15	24.10	24.64	25.20