

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: P1036237

Luminaire Tested: SQ4R-PC3-075D-B2750-1D-UNV-W2A_3000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036237
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_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

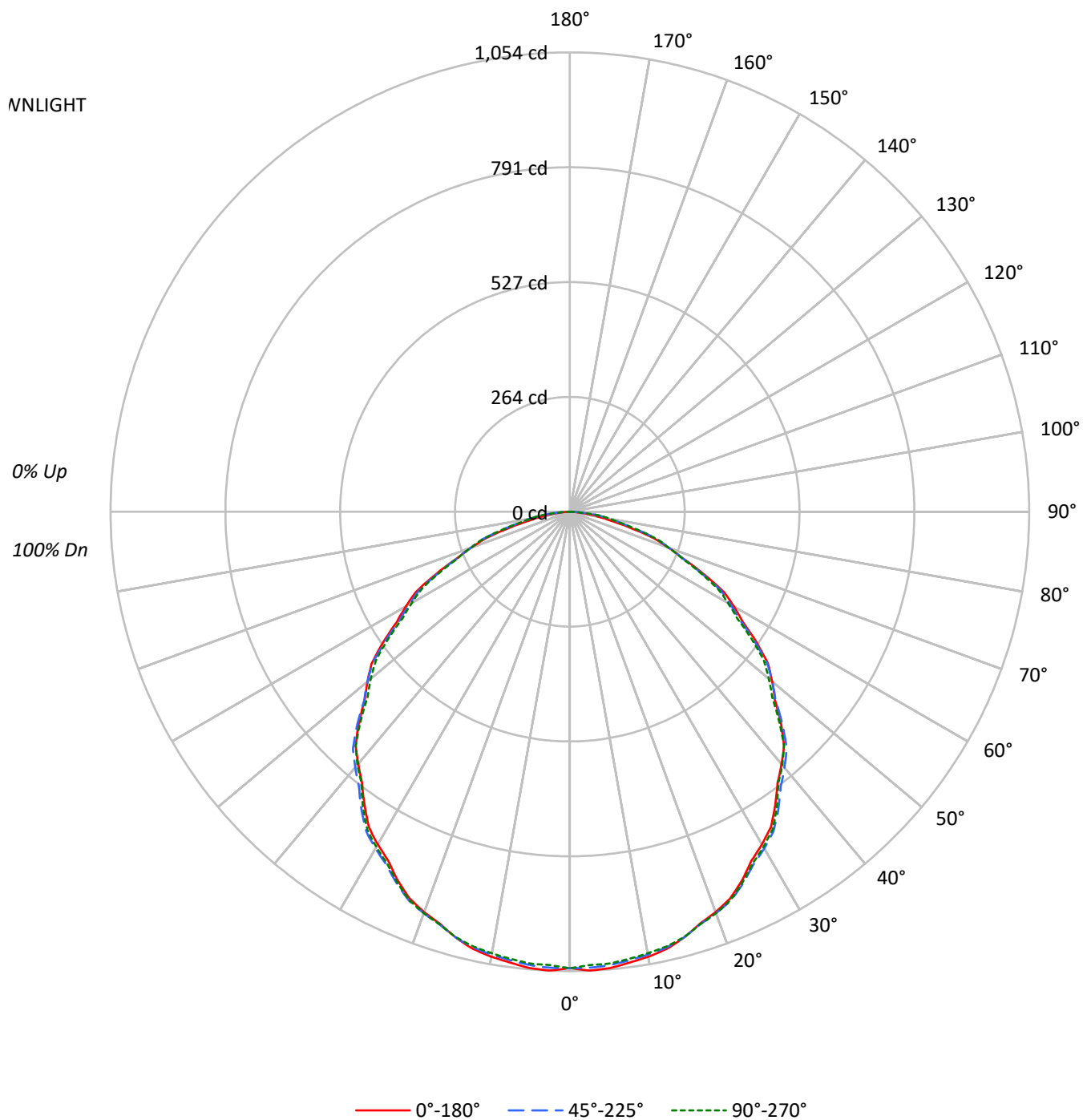
Lumens per Lamp: N/A
Luminaire Lumens: 2858.3 lumens
Efficiency: N/A
Efficacy: 111.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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: P1036237

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_3000K

Luminous Intensity Polar Plot



TEST NUMBER: P1036237

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_3000K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10		0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102		100
1	109	105	100	97	106	102	98	95	98	95	92		94	92	89		91	88	87		85
2	99	91	85	79	97	90	83	78	86	81	76		83	78	75		80	76	73		71
3	91	80	72	66	88	79	71	65	76	70	64		73	68	63		71	66	62		60
4	83	71	63	56	81	70	62	56	68	61	55		65	59	54		63	58	53		51
5	77	64	55	48	74	63	54	48	61	53	48		59	52	47		57	51	47		44
6	71	58	49	42	69	57	48	42	55	47	42		53	46	41		52	46	41		39
7	66	52	43	37	64	51	43	37	50	42	37		48	42	37		47	41	36		34
8	61	48	39	33	60	47	39	33	46	38	33		44	38	33		43	37	33		31
9	57	44	36	30	56	43	35	30	42	35	30		41	34	30		40	34	29		28
10	54	40	32	27	52	40	32	27	39	32	27		38	31	27		37	31	27		25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9662	9662	9662
5°	9737	9672	9637
10°	9712	9666	9638
15°	9662	9662	9652
20°	9597	9626	9626
25°	9507	9575	9546
30°	9390	9504	9464
35°	9252	9393	9327
40°	9097	9227	9134
45°	8933	8996	8857
50°	8700	8700	8560
55°	8424	8315	8189
60°	8018	7855	7730
65°	7407	7261	7196
70°	6490	6536	6517
75°	5219	5771	5811
80°	3714	4893	4947
85°	2265	4107	4107

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8996 cd/sqm

TEST NUMBER: P1036237

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	3.5
10°-20°	284.4	10.0
20°-30°	430.7	15.1
30°-40°	516.4	18.1
40°-50°	526.5	18.4
50°-60°	459.6	16.1
60°-70°	329.1	11.5
70°-80°	169.5	5.9
80°-90°	42.9	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°	814.3	28.5
0°-40°	1330.7	46.6
0°-60°	2316.9	81.1
0°-90°	2858.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2858.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1047	1047	1047	1047	1047	
5°	1051	1041	1044	1041	1041	100
15°	1012	1003	1012	1012	1010	285
25°	934	927	941	938	938	430
35°	821	819	834	828	828	514
45°	685	683	690	681	679	527
55°	524	517	517	509	509	467
65°	339	332	333	330	330	336
75°	146	153	162	163	163	158
85°	21	33	39	40	39	30
90°	0	0	0	0	0	

TEST NUMBER: P1036237

CATALOG NUMBER: SQ4R-PC3-075D-B2750-1D-UNV-W2A_3000K

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1047.2	1047.2	1047.2	1047.2	1047.2
2.5°	1053.6	1044.3	1047.2	1044.9	1041.1
5°	1051.3	1040.7	1044.3	1041.4	1040.6
7.5°	1043.5	1033.2	1038.1	1036.0	1035.0
10°	1036.7	1026.2	1031.8	1029.8	1028.8
12.5°	1027.4	1017.6	1024.0	1022.2	1021.8
15°	1011.5	1002.9	1011.5	1011.5	1010.5
17.5°	991.4	983.7	992.7	993.4	992.7
20°	977.5	969.0	980.4	979.4	980.4
22.5°	960.4	953.5	965.6	963.1	964.1
25°	933.9	927.2	940.6	937.7	937.7
27.5°	902.5	897.6	912.3	909.1	909.1
30°	881.4	876.8	892.1	888.3	888.3
32.5°	858.2	855.0	869.7	865.0	865.0
35°	821.4	819.4	834.0	828.1	828.1
37.5°	783.3	781.6	794.8	787.8	785.5
40°	755.3	754.5	766.1	758.4	758.4
42.5°	727.4	726.4	736.7	727.3	727.3
45°	684.6	682.7	689.5	680.7	678.8
47.5°	637.9	636.0	640.2	630.6	629.6
50°	606.1	604.1	606.1	597.3	596.4
52.5°	573.5	570.0	570.4	561.6	561.4
55°	523.7	517.1	516.9	509.1	509.1
57.5°	470.9	462.2	463.0	456.3	455.3
60°	434.5	424.9	425.7	419.9	418.9
62.5°	398.7	387.8	390.0	383.4	383.3
65°	339.3	331.8	332.6	329.6	329.6
67.5°	282.4	275.3	280.5	278.2	278.0
70°	240.6	235.7	242.3	242.3	241.6
72.5°	201.7	201.5	209.8	209.8	210.5
75°	146.4	153.1	161.9	163.0	163.0
77.5°	97.8	109.5	119.3	119.6	119.5
80°	69.9	83.1	92.1	94.1	93.1
82.5°	47.3	61.4	68.9	70.7	69.9
85°	21.4	32.8	38.8	39.8	38.8
87.5°	6.2	13.0	15.6	15.6	14.0
90°	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1036237

CATALOG NUMBER: SQ4R-PC3-075D-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	19.35	20.96	19.71	21.28	21.59	19.23	20.85	19.60	21.16	21.48
	3H	20.89	22.35	21.27	22.68	23.04	20.83	22.29	21.21	22.62	22.98
	4H	21.40	22.77	21.80	23.12	23.50	21.44	22.81	21.83	23.15	23.53
	6H	21.64	22.91	22.05	23.27	23.66	21.80	23.07	22.21	23.43	23.83
	8H	21.70	22.91	22.13	23.30	23.70	21.94	23.15	22.36	23.54	23.94
	12H	21.73	22.89	22.16	23.27	23.70	22.03	23.19	22.46	23.57	24.00
4H	2H	19.94	21.31	20.34	21.66	22.04	19.85	21.22	20.25	21.57	21.94
	3H	21.70	22.84	22.11	23.24	23.64	21.67	22.82	22.08	23.22	23.62
	4H	22.31	23.34	22.74	23.75	24.19	22.38	23.41	22.81	23.82	24.26
	6H	22.65	23.55	23.10	23.99	24.45	22.85	23.76	23.31	24.20	24.65
	8H	22.75	23.59	23.21	24.03	24.50	23.04	23.88	23.50	24.32	24.79
	12H	22.80	23.56	23.28	24.03	24.50	23.17	23.92	23.65	24.40	24.87
8H	4H	22.56	23.40	23.02	23.85	24.31	22.62	23.47	23.09	23.91	24.38
	6H	23.01	23.71	23.50	24.19	24.67	23.21	23.91	23.71	24.40	24.88
	8H	23.17	23.80	23.68	24.31	24.79	23.47	24.10	23.98	24.61	25.09
	12H	23.28	23.83	23.78	24.32	24.88	23.67	24.22	24.18	24.71	25.28
12H	4H	22.58	23.34	23.06	23.82	24.29	22.64	23.40	23.12	23.87	24.34
	6H	23.05	23.68	23.56	24.19	24.68	23.25	23.88	23.76	24.39	24.87
	8H	23.28	23.83	23.78	24.32	24.88	23.57	24.12	24.08	24.61	25.17