

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: P1036241

Luminaire Tested: SQ4R-PC3-075D-B35-1D-UNV

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036241
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

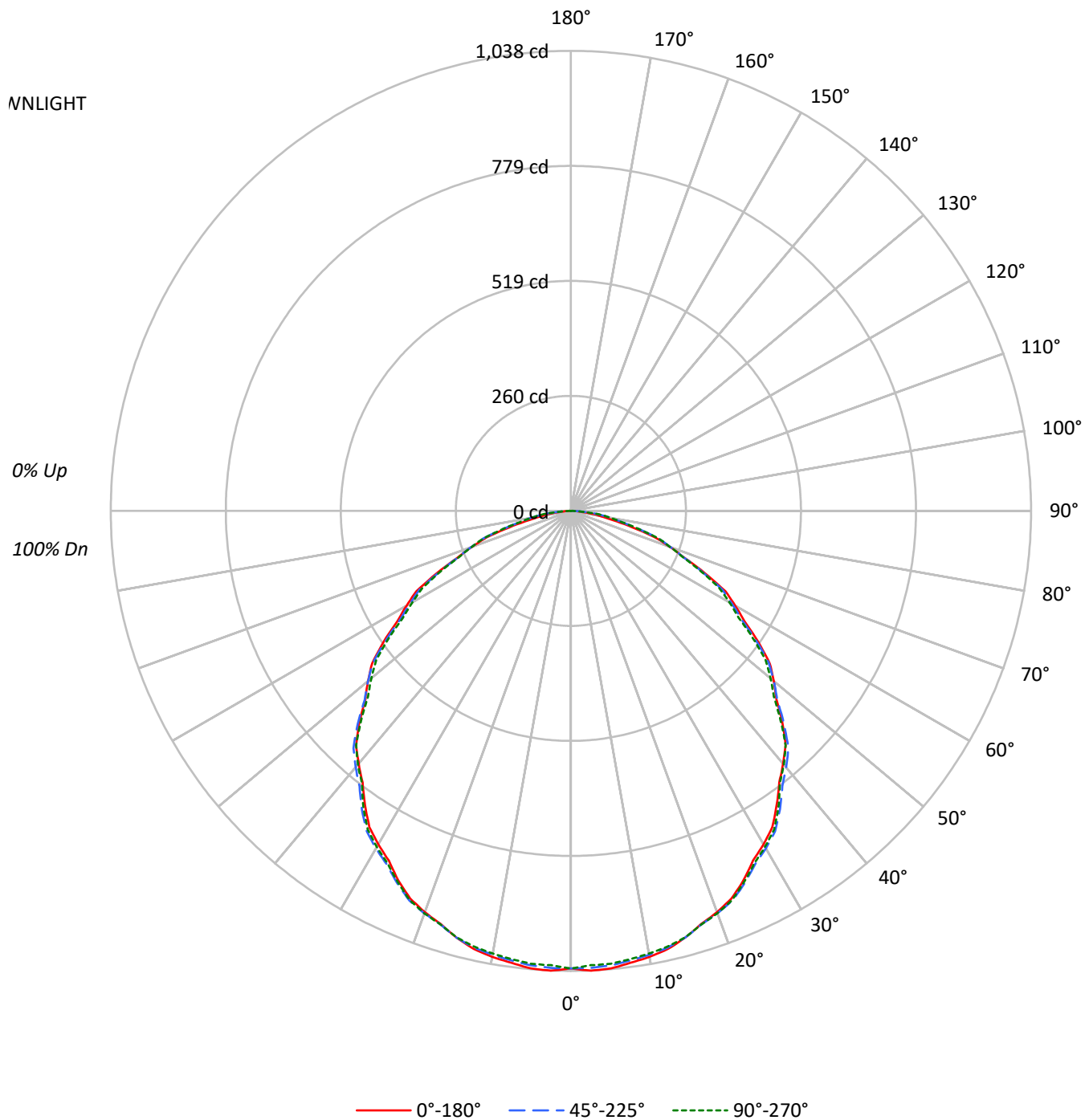
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2817.3 lumens
Efficiency: N/A
Efficacy: 110.1 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

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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	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°	9523	9523	9523
5°	9597	9534	9499
10°	9573	9528	9501
15°	9523	9523	9513
20°	9460	9487	9487
25°	9371	9438	9409
30°	9256	9368	9327
35°	9119	9258	9193
40°	8967	9094	9003
45°	8805	8867	8729
50°	8575	8575	8437
55°	8303	8194	8072
60°	7901	7743	7619
65°	7302	7156	7093
70°	6396	6444	6423
75°	5144	5689	5729
80°	3661	4824	4877
85°	2234	4054	4054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8867 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	3.5
10°-20°	280.4	10.0
20°-30°	424.6	15.1
30°-40°	509.0	18.1
40°-50°	519.0	18.4
50°-60°	453.0	16.1
60°-70°	324.3	11.5
70°-80°	167.1	5.9
80°-90°	42.3	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°	802.6	28.5
0°-40°	1311.6	46.6
0°-60°	2283.6	81.1
0°-90°	2817.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2817.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1032	1032	1032	1032	1032	
5°	1036	1026	1029	1026	1026	98
15°	997	988	997	997	996	281
25°	920	914	927	924	924	424
35°	810	808	822	816	816	506
45°	675	673	680	671	669	519
55°	516	510	509	502	502	460
65°	334	327	328	325	325	331
75°	144	151	160	161	161	156
85°	21	32	38	39	38	29
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1032.2	1032.2	1032.2	1032.2	1032.2
2.5°	1038.5	1029.4	1032.2	1029.9	1026.1
5°	1036.2	1025.7	1029.4	1026.4	1025.6
7.5°	1028.6	1018.4	1023.2	1021.1	1020.2
10°	1021.8	1011.4	1017.0	1015.1	1014.1
12.5°	1012.6	1003.0	1009.3	1007.5	1007.1
15°	997.0	988.5	997.0	997.0	996.0
17.5°	977.2	969.6	978.5	979.2	978.5
20°	963.5	955.1	966.3	965.4	966.3
22.5°	946.7	939.8	951.8	949.3	950.3
25°	920.5	913.9	927.1	924.3	924.3
27.5°	889.5	884.7	899.2	896.1	896.1
30°	868.8	864.2	879.3	875.5	875.5
32.5°	845.9	842.7	857.2	852.6	852.6
35°	809.6	807.6	822.0	816.2	816.2
37.5°	772.1	770.4	783.4	776.5	774.2
40°	744.5	743.7	755.1	747.5	747.5
42.5°	717.0	716.0	726.1	716.9	716.9
45°	674.8	672.9	679.6	670.9	669.0
47.5°	628.7	626.9	631.0	621.6	620.6
50°	597.4	595.5	597.4	588.7	587.8
52.5°	565.3	561.8	562.2	553.6	553.4
55°	516.2	509.6	509.4	501.8	501.8
57.5°	464.1	455.5	456.4	449.7	448.8
60°	428.2	418.8	419.6	413.8	412.9
62.5°	393.0	382.2	384.4	377.9	377.8
65°	334.5	327.0	327.8	324.9	324.9
67.5°	278.3	271.4	276.4	274.2	274.0
70°	237.1	232.3	238.9	238.9	238.1
72.5°	198.8	198.6	206.8	206.8	207.5
75°	144.3	150.9	159.6	160.7	160.7
77.5°	96.4	107.9	117.6	117.9	117.8
80°	68.9	81.9	90.8	92.8	91.8
82.5°	46.6	60.5	67.9	69.7	68.9
85°	21.1	32.3	38.3	39.2	38.3
87.5°	6.1	12.8	15.4	15.4	13.8
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	19.30	20.91	19.66	21.23	21.54	19.18	20.80	19.55	21.11	21.42
	3H	20.84	22.30	21.22	22.62	22.99	20.78	22.24	21.16	22.57	22.93
	4H	21.35	22.72	21.75	23.07	23.44	21.38	22.75	21.78	23.10	23.48
	6H	21.59	22.86	22.00	23.22	23.61	21.75	23.02	22.16	23.38	23.77
	8H	21.65	22.86	22.08	23.25	23.65	21.89	23.10	22.31	23.49	23.89
	12H	21.68	22.84	22.11	23.22	23.65	21.98	23.14	22.41	23.52	23.95
4H	2H	19.89	21.26	20.29	21.61	21.99	19.80	21.17	20.20	21.52	21.89
	3H	21.65	22.79	22.06	23.19	23.59	21.62	22.77	22.03	23.17	23.57
	4H	22.26	23.29	22.69	23.70	24.14	22.33	23.36	22.76	23.77	24.21
	6H	22.60	23.50	23.05	23.94	24.39	22.80	23.71	23.26	24.15	24.60
	8H	22.70	23.54	23.16	23.98	24.45	22.99	23.83	23.45	24.27	24.74
	12H	22.75	23.50	23.23	23.98	24.45	23.12	23.87	23.60	24.35	24.82
8H	4H	22.51	23.35	22.97	23.80	24.26	22.57	23.42	23.04	23.86	24.33
	6H	22.96	23.66	23.45	24.14	24.62	23.16	23.86	23.66	24.35	24.83
	8H	23.12	23.75	23.63	24.26	24.74	23.42	24.05	23.93	24.56	25.04
	12H	23.23	23.78	23.73	24.27	24.83	23.62	24.17	24.13	24.67	25.23
12H	4H	22.53	23.29	23.01	23.77	24.24	22.59	23.35	23.07	23.82	24.29
	6H	23.00	23.63	23.51	24.14	24.62	23.20	23.83	23.71	24.34	24.82
	8H	23.23	23.78	23.73	24.27	24.83	23.52	24.07	24.03	24.56	25.12