

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: P1036302

Luminaire Tested: SQ4R-PR1-075D-B2750-1D-UNV-W2A_3500K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036302
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_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

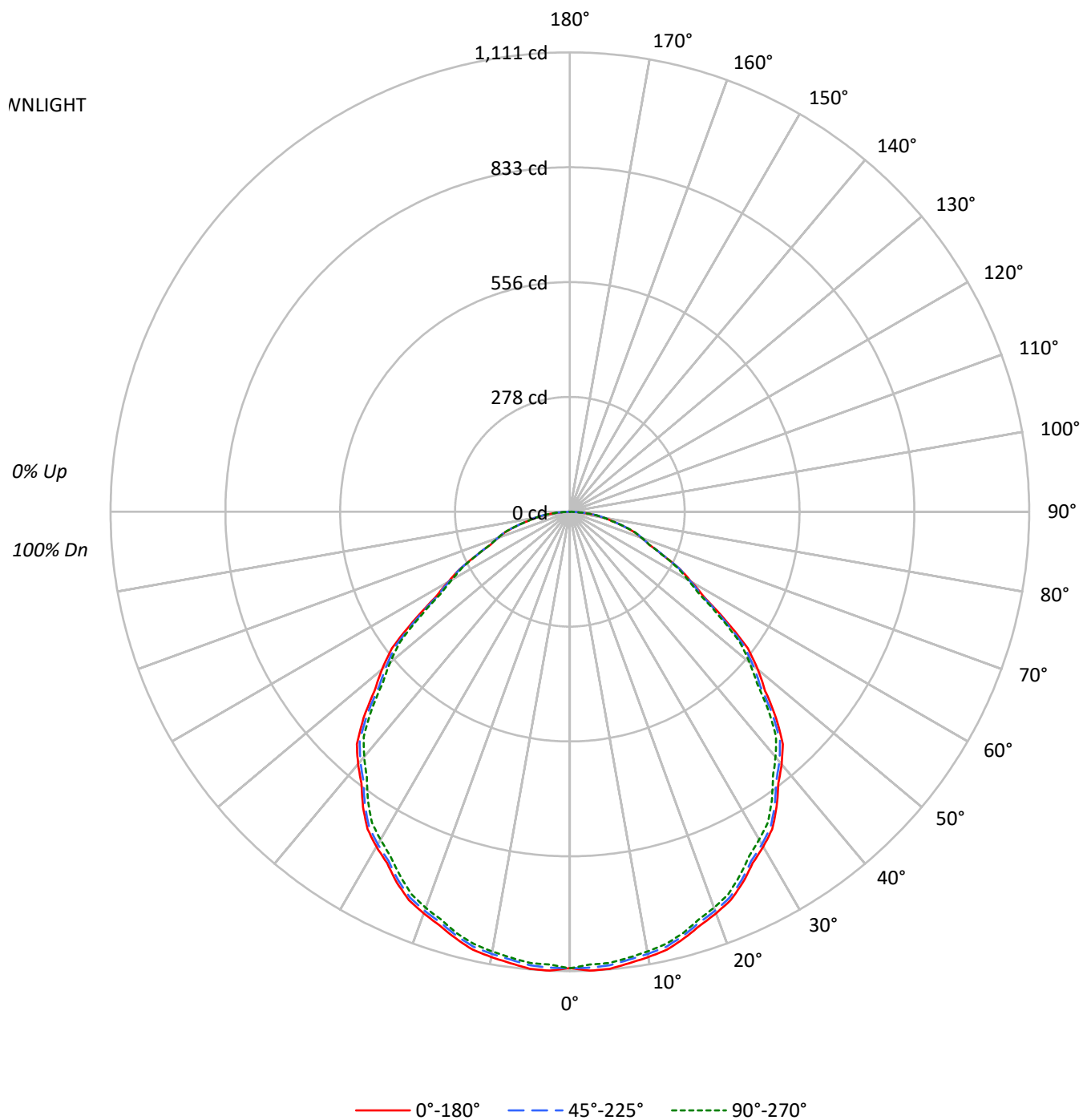
Lumens per Lamp: N/A
Luminaire Lumens: 2759.6 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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

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Luminous Intensity Polar Plot



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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	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°	10184	10184	10184
5°	10276	10198	10144
10°	10244	10172	10118
15°	10199	10135	10080
20°	10148	10081	10008
25°	10075	10009	9892
30°	9966	9897	9754
35°	9820	9735	9595
40°	9595	9492	9321
45°	9205	9043	8857
50°	8516	8311	8147
55°	7431	7266	7113
60°	6265	6211	6087
65°	5418	5438	5397
70°	4974	4999	4999
75°	4780	4780	4812
80°	4490	4543	4490
85°	3620	4033	4033

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 9205 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	3.8
10°-20°	298.7	10.8
20°-30°	450.5	16.3
30°-40°	536.8	19.5
40°-50°	529.2	19.2
50°-60°	404.4	14.7
60°-70°	250.2	9.1
70°-80°	142.1	5.2
80°-90°	43.2	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°	853.6	30.9
0°-40°	1390.3	50.4
0°-60°	2323.9	84.2
0°-90°	2759.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2759.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1098	1101	1097	1095	105
15°	1068	1057	1061	1057	1055	301
25°	990	978	983	973	972	455
35°	872	862	864	853	852	544
45°	706	696	693	681	679	540
55°	462	455	452	444	442	414
65°	248	246	249	247	247	251
75°	134	134	134	135	135	142
85°	34	36	38	38	38	41
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1103.8	1103.8	1103.8	1103.8	1103.8
2.5°	1110.8	1101.1	1103.8	1101.6	1096.3
5°	1109.6	1097.5	1101.1	1097.1	1095.3
7.5°	1101.1	1089.0	1092.7	1088.8	1087.8
10°	1093.4	1082.2	1085.8	1082.0	1080.0
12.5°	1085.0	1073.2	1077.5	1072.9	1071.0
15°	1067.8	1056.7	1061.1	1057.3	1055.3
17.5°	1048.7	1036.8	1041.4	1037.0	1034.5
20°	1033.6	1022.4	1026.8	1020.3	1019.3
22.5°	1016.8	1005.7	1010.1	1001.3	1001.1
25°	989.7	977.7	983.2	972.7	971.7
27.5°	957.6	946.5	951.0	940.3	939.3
30°	935.5	924.4	929.0	917.5	915.6
32.5°	910.5	900.1	903.9	892.5	891.3
35°	871.9	861.6	864.3	852.9	851.9
37.5°	828.0	818.7	820.1	807.5	806.7
40°	796.7	787.5	788.1	774.9	773.9
42.5°	762.6	753.3	752.4	739.2	738.2
45°	705.5	696.2	693.1	680.7	678.8
47.5°	640.5	631.2	625.4	615.2	614.0
50°	593.3	584.0	579.0	570.4	567.6
52.5°	542.3	533.0	528.9	521.0	518.2
55°	462.0	454.6	451.7	444.0	442.2
57.5°	385.8	380.9	379.9	372.5	371.8
60°	339.5	336.6	336.6	329.9	329.9
62.5°	299.9	297.8	299.2	294.8	294.2
65°	248.2	246.3	249.1	247.2	247.2
67.5°	207.4	207.4	208.9	208.1	208.1
70°	184.4	184.4	185.3	185.3	185.3
72.5°	163.9	163.2	165.7	165.6	164.9
75°	134.1	134.1	134.1	135.0	135.0
77.5°	104.4	104.6	105.4	105.2	104.4
80°	84.5	85.5	85.5	84.5	84.5
82.5°	64.9	65.8	65.8	65.6	64.9
85°	34.2	36.0	38.1	38.1	38.1
87.5°	9.8	12.8	15.3	15.3	14.4
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	18.17	19.73	18.53	20.04	20.36	17.99	19.56	18.36	19.87	20.19
	3H	19.50	20.90	19.88	21.23	21.59	19.40	20.80	19.78	21.13	21.49
	4H	20.10	21.42	20.50	21.77	22.15	20.03	21.35	20.43	21.70	22.07
	6H	20.55	21.77	20.96	22.13	22.53	20.49	21.71	20.90	22.07	22.46
	8H	20.73	21.90	21.16	22.28	22.69	20.67	21.83	21.10	22.22	22.62
	12H	20.84	21.96	21.27	22.34	22.77	20.80	21.91	21.23	22.29	22.72
4H	2H	18.64	19.96	19.04	20.31	20.68	18.50	19.82	18.90	20.17	20.54
	3H	20.24	21.34	20.65	21.74	22.14	20.17	21.26	20.58	21.66	22.06
	4H	20.98	21.97	21.41	22.38	22.82	20.93	21.92	21.36	22.33	22.77
	6H	21.57	22.43	22.02	22.87	23.33	21.53	22.39	21.98	22.83	23.29
	8H	21.81	22.62	22.27	23.06	23.53	21.77	22.58	22.23	23.02	23.49
	12H	21.97	22.69	22.45	23.17	23.64	21.95	22.67	22.43	23.15	23.62
8H	4H	21.25	22.06	21.72	22.50	22.97	21.21	22.02	21.67	22.46	22.93
	6H	21.98	22.65	22.47	23.14	23.62	21.94	22.61	22.44	23.10	23.58
	8H	22.31	22.92	22.83	23.42	23.91	22.28	22.88	22.79	23.39	23.88
	12H	22.55	23.08	23.06	23.57	24.14	22.54	23.07	23.05	23.57	24.13
12H	4H	21.28	22.01	21.76	22.48	22.95	21.24	21.96	21.72	22.44	22.91
	6H	22.04	22.65	22.55	23.15	23.64	22.01	22.61	22.52	23.12	23.61
	8H	22.44	22.98	22.95	23.47	24.03	22.41	22.94	22.92	23.43	24.00