

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: P1036239

Luminaire Tested: SQ4R-PC3-075D-B2750-1D-UNV-W2A_4000K

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036239
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_4000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, DIRECT ONLY 750 LUMENS PER FOOT DOV

Light Source: -
Ballast/Driver: -

Summary

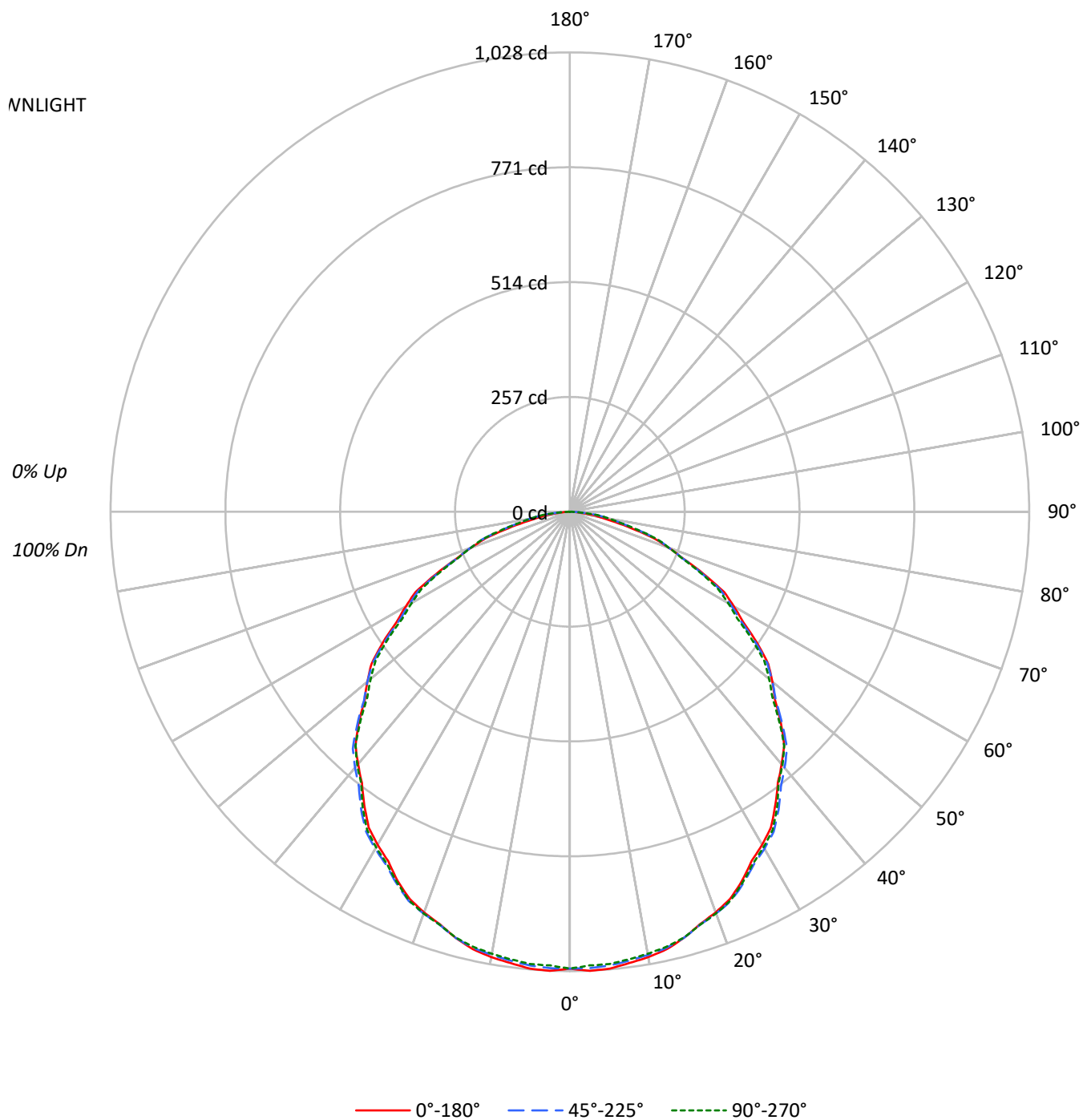
Lumens per Lamp: N/A
Luminaire Lumens: 2789.9 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.26 / 1.37
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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°	9431	9431	9431
5°	9503	9441	9407
10°	9480	9435	9408
15°	9430	9430	9421
20°	9368	9395	9395
25°	9280	9346	9318
30°	9165	9277	9237
35°	9030	9168	9104
40°	8880	9005	8916
45°	8720	8781	8644
50°	8491	8491	8355
55°	8223	8115	7993
60°	7826	7667	7543
65°	7230	7086	7023
70°	6334	6380	6361
75°	5094	5636	5671
80°	3624	4777	4830
85°	2212	4012	4012

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 8781 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.7	3.5
10°-20°	277.6	10.0
20°-30°	420.4	15.1
30°-40°	504.1	18.1
40°-50°	513.9	18.4
50°-60°	448.6	16.1
60°-70°	321.2	11.5
70°-80°	165.5	5.9
80°-90°	41.9	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°	794.8	28.5
0°-40°	1298.9	46.6
0°-60°	2261.4	81.1
0°-90°	2789.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2789.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1022	1022	1022	1022	1022	
5°	1026	1016	1019	1016	1016	97
15°	987	979	987	987	986	278
25°	912	905	918	915	915	420
35°	802	800	814	808	808	501
45°	668	666	673	664	662	514
55°	511	505	504	497	497	456
65°	331	324	325	322	322	328
75°	143	149	158	159	159	154
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°	1022.2	1022.2	1022.2	1022.2	1022.2
2.5°	1028.4	1019.4	1022.2	1019.9	1016.2
5°	1026.1	1015.8	1019.4	1016.5	1015.7
7.5°	1018.6	1008.5	1013.3	1011.2	1010.2
10°	1011.9	1001.6	1007.1	1005.2	1004.2
12.5°	1002.8	993.3	999.5	997.7	997.4
15°	987.3	978.9	987.3	987.3	986.3
17.5°	967.7	960.1	969.0	969.6	969.0
20°	954.1	945.8	956.9	956.0	956.9
22.5°	937.5	930.7	942.5	940.1	941.1
25°	911.6	905.0	918.1	915.3	915.3
27.5°	880.9	876.1	890.5	887.4	887.4
30°	860.3	855.8	870.8	867.0	867.0
32.5°	837.7	834.6	848.9	844.3	844.3
35°	801.7	799.8	814.0	808.3	808.3
37.5°	764.6	762.9	775.8	769.0	766.7
40°	737.3	736.5	747.7	740.3	740.3
42.5°	710.0	709.1	719.0	709.9	709.9
45°	668.3	666.3	673.0	664.4	662.5
47.5°	622.6	620.8	624.9	615.5	614.6
50°	591.6	589.7	591.6	583.0	582.1
52.5°	559.8	556.3	556.7	548.2	548.0
55°	511.2	504.7	504.5	496.9	496.9
57.5°	459.6	451.1	452.0	445.4	444.4
60°	424.1	414.8	415.5	409.8	408.8
62.5°	389.2	378.5	380.6	374.3	374.2
65°	331.2	323.9	324.6	321.7	321.7
67.5°	275.6	268.7	273.8	271.5	271.3
70°	234.8	230.1	236.5	236.5	235.8
72.5°	196.9	196.7	204.8	204.8	205.4
75°	142.9	149.4	158.1	159.1	159.1
77.5°	95.5	106.9	116.5	116.8	116.7
80°	68.2	81.1	89.9	91.9	90.9
82.5°	46.1	59.9	67.3	69.0	68.2
85°	20.9	32.0	37.9	38.9	37.9
87.5°	6.0	12.7	15.2	15.2	13.7
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	19.26	20.88	19.63	21.19	21.51	19.15	20.76	19.51	21.08	21.39
	3H	20.81	22.26	21.18	22.59	22.95	20.75	22.21	21.13	22.53	22.89
	4H	21.32	22.69	21.72	23.03	23.41	21.35	22.72	21.75	23.07	23.44
	6H	21.55	22.82	21.97	23.19	23.58	21.72	22.99	22.13	23.35	23.74
	8H	21.62	22.83	22.04	23.22	23.62	21.85	23.07	22.28	23.45	23.85
	12H	21.64	22.80	22.07	23.18	23.61	21.94	23.10	22.37	23.48	23.91
4H	2H	19.86	21.23	20.26	21.58	21.95	19.77	21.14	20.16	21.48	21.86
	3H	21.61	22.76	22.02	23.16	23.56	21.59	22.73	22.00	23.13	23.53
	4H	22.22	23.26	22.65	23.67	24.11	22.29	23.33	22.72	23.74	24.18
	6H	22.56	23.46	23.02	23.90	24.36	22.77	23.67	23.22	24.11	24.57
	8H	22.66	23.51	23.12	23.95	24.41	22.96	23.80	23.42	24.24	24.71
	12H	22.71	23.47	23.20	23.95	24.42	23.08	23.84	23.56	24.31	24.78
8H	4H	22.48	23.32	22.94	23.76	24.23	22.54	23.38	23.00	23.83	24.29
	6H	22.92	23.62	23.42	24.11	24.59	23.13	23.83	23.62	24.32	24.79
	8H	23.09	23.72	23.60	24.22	24.71	23.39	24.02	23.90	24.52	25.01
	12H	23.19	23.75	23.70	24.24	24.80	23.59	24.14	24.09	24.63	25.19
12H	4H	22.50	23.26	22.98	23.73	24.20	22.56	23.31	23.04	23.79	24.26
	6H	22.97	23.60	23.48	24.11	24.59	23.17	23.80	23.68	24.30	24.79
	8H	23.19	23.75	23.70	24.24	24.80	23.48	24.04	23.99	24.53	25.09