

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: P1036367

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

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P1036367
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P519276)
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4R-WB-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

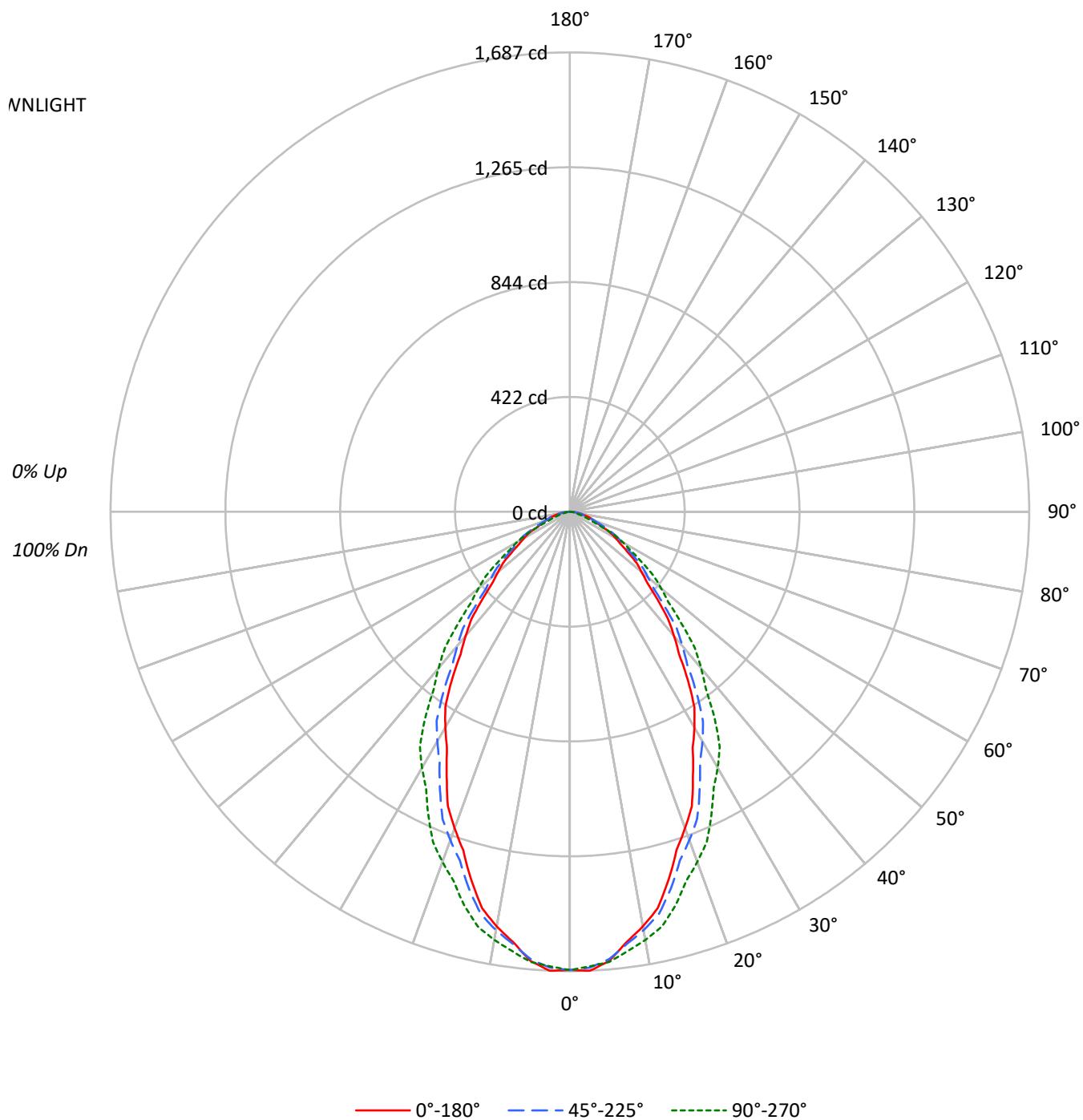
Lumens per Lamp: N/A
Luminaire Lumens: 2452.2 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Direct

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	111	107	104	101	109	105	102	99	101	99	96		97	95	93		94
2	103	97	91	87	101	95	90	86	92	87	84		88	85	82		85
3	96	87	81	75	94	86	80	75	83	78	73		80	76	72		78
4	89	79	72	66	87	78	71	66	76	70	65		74	68	64		71
5	83	72	65	59	81	71	64	59	69	63	58		67	62	58		66
6	78	66	59	53	76	65	58	53	64	57	53		62	56	52		61
7	73	61	53	48	71	60	53	48	59	52	48		58	52	47		56
8	68	57	49	44	67	56	49	44	55	48	44		53	48	43		52
9	64	53	45	40	63	52	45	40	51	45	40		50	44	40		49
10	61	49	42	37	60	48	42	37	48	41	37		47	41	37		46

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15526	15526	15526
5°	15333	15278	15368
10°	14487	14618	14956
15°	13372	13684	14297
20°	12143	12600	13433
25°	10894	11486	12516
30°	9739	10375	11563
35°	8516	9131	10439
40°	7167	7737	9037
45°	5915	6425	7544
50°	4938	5384	6284
55°	4192	4620	5191
60°	3585	4006	4143
65°	2856	3369	2674
70°	2530	2630	1635
75°	2342	2135	1002
80°	2157	1961	861
85°	1948	1810	709

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7544 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.4	6.3
10°-20°	401.5	16.4
20°-30°	520.0	21.2
30°-40°	509.3	20.8
40°-50°	389.8	15.9
50°-60°	259.7	10.6
60°-70°	141.7	5.8
70°-80°	59.1	2.4
80°-90°	16.7	0.7
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°	1075.9	43.9
0°-40°	1585.2	64.6
0°-60°	2234.7	91.1
0°-90°	2452.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2452.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1683	1683	1683	1683	1683	
5°	1656	1639	1650	1653	1659	154
15°	1400	1395	1433	1472	1497	391
25°	1070	1073	1128	1178	1230	492
35°	756	760	811	865	927	470
45°	453	462	492	530	578	354
55°	261	271	287	298	323	236
65°	131	142	154	135	122	136
75°	66	66	60	41	28	70
85°	18	18	17	11	7	21
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1682.8	1682.8	1682.8	1682.8	1682.8
2.5°	1687.0	1672.0	1675.9	1675.7	1671.0
5°	1655.6	1638.8	1649.6	1653.4	1659.3
7.5°	1594.1	1581.5	1601.1	1615.5	1627.2
10°	1546.3	1535.4	1560.3	1581.3	1596.4
12.5°	1490.8	1481.6	1512.5	1540.5	1560.5
15°	1400.0	1395.0	1432.6	1471.5	1496.8
17.5°	1303.1	1300.6	1343.7	1389.1	1421.4
20°	1236.8	1236.1	1283.3	1330.8	1368.2
22.5°	1170.1	1171.6	1221.3	1270.6	1313.4
25°	1070.1	1072.8	1128.3	1177.5	1229.5
27.5°	977.4	978.7	1035.9	1087.9	1143.4
30°	914.2	917.8	973.9	1027.8	1085.4
32.5°	851.0	855.2	910.2	965.7	1024.6
35°	756.1	759.8	810.7	865.4	926.8
37.5°	658.3	663.3	708.6	760.1	820.7
40°	595.1	602.4	642.4	691.1	750.3
42.5°	534.2	543.3	580.4	626.6	679.9
45°	453.3	462.1	492.4	529.8	578.2
47.5°	383.6	393.6	417.1	449.1	490.4
50°	344.0	353.5	375.1	398.8	437.8
52.5°	309.3	318.6	337.9	356.2	389.5
55°	260.6	271.4	287.2	298.2	322.7
57.5°	220.8	231.2	243.7	248.6	263.5
60°	194.3	205.8	217.1	216.4	224.5
62.5°	170.0	179.9	191.1	183.2	183.7
65°	130.8	141.6	154.3	134.9	122.5
67.5°	105.6	107.8	121.0	94.1	79.4
70°	93.8	93.8	97.5	72.9	60.6
72.5°	82.6	82.6	79.2	59.2	46.3
75°	65.7	65.7	59.9	41.1	28.1
77.5°	50.6	50.1	45.8	30.6	20.4
80°	40.6	40.6	36.9	24.2	16.2
82.5°	31.8	31.8	28.6	18.9	12.0
85°	18.4	18.4	17.1	11.0	6.7
87.5°	6.6	6.6	5.9	3.5	3.0
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	15.28	16.65	15.64	16.97	17.28	15.90	17.28	16.27	17.59	17.90
	3H	16.25	17.47	16.63	17.80	18.17	16.36	17.58	16.74	17.91	18.28
	4H	16.69	17.83	17.09	18.18	18.56	16.44	17.58	16.84	17.93	18.31
	6H	17.00	18.05	17.41	18.42	18.81	16.45	17.50	16.86	17.87	18.26
	8H	17.13	18.12	17.56	18.51	18.92	16.45	17.44	16.87	17.83	18.24
	12H	17.21	18.16	17.64	18.55	18.98	16.43	17.38	16.86	17.76	18.19
4H	2H	15.77	16.91	16.17	17.26	17.64	16.28	17.43	16.69	17.78	18.16
	3H	16.93	17.87	17.35	18.27	18.68	16.92	17.85	17.33	18.26	18.66
	4H	17.47	18.31	17.90	18.72	19.17	17.05	17.89	17.49	18.31	18.75
	6H	17.89	18.61	18.35	19.06	19.52	17.12	17.85	17.58	18.29	18.76
	8H	18.07	18.74	18.53	19.19	19.66	17.13	17.81	17.60	18.25	18.72
	12H	18.19	18.79	18.68	19.27	19.75	17.13	17.73	17.62	18.21	18.69
8H	4H	17.58	18.25	18.04	18.70	19.17	17.20	17.87	17.67	18.32	18.79
	6H	18.11	18.67	18.61	19.16	19.64	17.35	17.90	17.85	18.40	18.88
	8H	18.38	18.87	18.90	19.39	19.88	17.40	17.90	17.92	18.41	18.90
	12H	18.58	19.02	19.10	19.51	20.08	17.44	17.87	17.95	18.37	18.94
12H	4H	17.56	18.16	18.04	18.64	19.11	17.20	17.80	17.69	18.29	18.76
	6H	18.12	18.62	18.64	19.13	19.62	17.38	17.88	17.90	18.40	18.89
	8H	18.44	18.88	18.95	19.37	19.94	17.49	17.93	18.00	18.42	18.99