

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: P854368

Luminaire Tested: SQ2-WBM-075D-935-UNV-STD-W-4

Issue Date: 7/12/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P854368  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2104-222-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/12/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2-WBM-075D-935-UNV-STD-W-4  
Description: CORELITE SQ2 SURFACE LED LUMINAIRE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: -  
Ballast/Driver: -

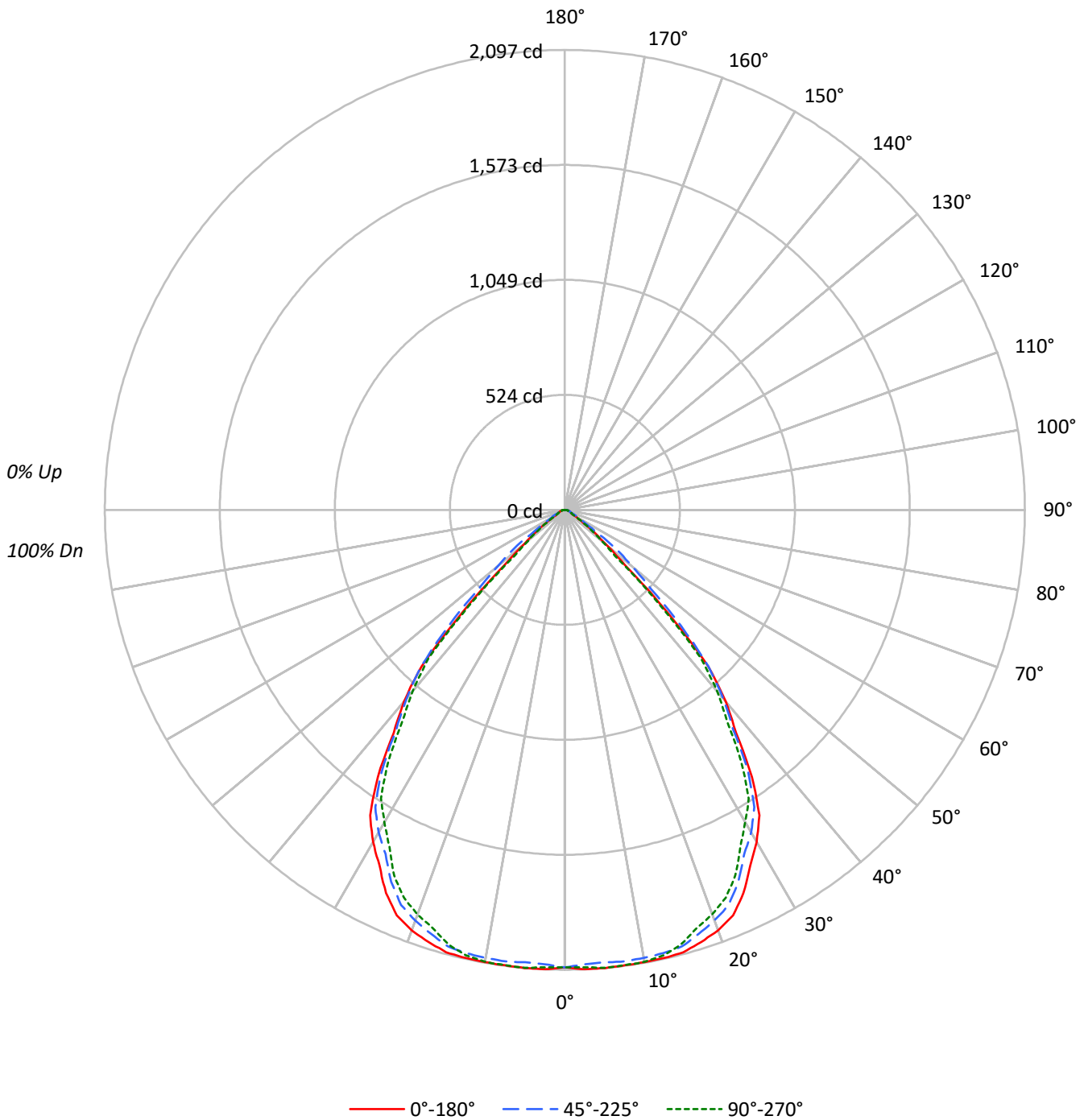
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3263.0 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Spacing Criteria (0/90/45): 1.23 / 1.18 / 1.17  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.6  
Input Voltage (V): 120  
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	0
RW	70	50	30	10	70	50	30	10	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				100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	87	85	83				83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	75				75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68				68
5	87	77	70	65	85	76	70	65	74	69	65	73	68	64	71	67	63	62				62
6	82	71	64	59	80	70	64	59	69	63	59	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	54	63	57	53	61	57	53	51				51
8	72	61	54	49	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	45	67	56	50	45	55	49	45	54	49	45	53	48	45	43				43
10	64	53	46	42	63	53	46	42	52	46	42	51	45	42	50	45	41	40				40

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	33680	33680	33680
5°	33987	33566	33971
10°	34331	34003	34315
15°	34902	34450	34283
20°	35069	34244	33728
25°	34347	33332	32780
30°	32589	31657	30650
35°	29309	28698	27654
40°	24028	23669	22763
45°	15025	17102	14111
50°	5878	9972	5375
55°	2899	4645	2871
60°	1356	2228	1227
65°	1223	1299	1146
70°	1180	1227	1133
75°	1185	1185	1061
80°	1116	1116	1023
85°	1112	926	926

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 17102 cd/sqm

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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	199.4	6.1
10°-20°	583.2	17.9
20°-30°	862.2	26.4
30°-40°	892.2	27.3
40°-50°	536.6	16.4
50°-60°	128.4	3.9
60°-70°	35.1	1.1
70°-80°	19.6	0.6
80°-90°	6.2	0.2
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°	1644.8	50.4
0°-40°	2537.0	77.8
0°-60°	3202.1	98.1
0°-90°	3263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3263.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2086	2086	2086	2086	2086	
5°	2097	2090	2071	2099	2096	200
15°	2088	2104	2061	2061	2051	588
25°	1928	1944	1871	1851	1840	881
35°	1487	1485	1456	1423	1403	913
45°	658	747	749	712	618	509
55°	103	116	165	110	102	103
65°	32	33	34	32	30	32
75°	19	19	19	18	17	20
85°	6	6	5	5	5	6
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2086.0	2086.0	2086.0	2086.0	2086.0
2.5°	2096.4	2090.9	2074.0	2091.5	2087.6
5°	2097.0	2090.2	2071.0	2098.9	2096.0
7.5°	2094.8	2091.9	2077.2	2098.3	2093.8
10°	2094.0	2095.0	2074.0	2095.9	2093.0
12.5°	2093.2	2101.2	2070.8	2087.8	2081.0
15°	2088.0	2103.6	2061.0	2060.8	2051.0
17.5°	2065.8	2084.4	2027.4	2011.7	1999.8
20°	2041.0	2059.6	1993.0	1967.9	1963.0
22.5°	2001.8	2021.9	1950.6	1923.0	1915.0
25°	1928.0	1943.6	1871.0	1850.8	1840.0
27.5°	1829.6	1838.2	1770.0	1746.9	1732.0
30°	1748.0	1751.9	1698.0	1667.5	1644.0
32.5°	1651.2	1655.1	1607.6	1578.8	1560.0
35°	1487.0	1485.0	1456.0	1422.6	1403.0
37.5°	1281.6	1284.3	1261.4	1235.0	1215.2
40°	1140.0	1142.0	1123.0	1084.9	1080.0
42.5°	967.2	996.5	971.0	941.3	918.4
45°	658.0	747.0	749.0	711.9	618.0
47.5°	371.6	472.9	531.4	424.8	310.8
50°	234.0	302.4	397.0	252.1	214.0
52.5°	166.0	200.8	299.4	177.3	157.2
55°	103.0	115.7	165.0	109.8	102.0
57.5°	61.2	74.3	93.8	74.3	62.0
60°	42.0	52.8	69.0	48.8	38.0
62.5°	36.4	40.9	54.6	38.5	34.8
65°	32.0	33.0	34.0	32.0	30.0
67.5°	28.2	29.2	28.4	28.2	26.4
70°	25.0	26.0	26.0	25.0	24.0
72.5°	22.6	23.6	22.8	22.6	20.8
75°	19.0	19.0	19.0	18.0	17.0
77.5°	14.4	15.4	14.4	14.4	13.4
80°	12.0	13.0	12.0	12.0	11.0
82.5°	9.6	9.8	9.6	9.6	8.6
85°	6.0	6.0	5.0	5.0	5.0
87.5°	1.6	2.4	1.6	1.6	1.6
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	9.32	10.51	9.69	10.82	11.13	8.98	10.16	9.35	10.47	10.79
	3H	9.85	10.89	10.23	11.22	11.59	9.52	10.55	9.90	10.89	11.25
	4H	10.13	11.09	10.54	11.45	11.83	9.78	10.74	10.18	11.09	11.48
	6H	10.38	11.26	10.80	11.63	12.03	10.00	10.88	10.42	11.25	11.65
	8H	10.47	11.30	10.90	11.69	12.10	10.07	10.90	10.51	11.29	11.70
	12H	10.53	11.32	10.96	11.70	12.13	10.12	10.91	10.55	11.29	11.72
4H	2H	9.38	10.34	9.78	10.69	11.08	9.06	10.02	9.47	10.38	10.76
	3H	10.12	10.89	10.53	11.30	11.71	9.82	10.59	10.23	11.00	11.41
	4H	10.53	11.22	10.96	11.64	12.08	10.20	10.89	10.64	11.31	11.76
	6H	10.92	11.51	11.38	11.96	12.43	10.56	11.15	11.03	11.60	12.07
	8H	11.05	11.61	11.53	12.06	12.53	10.68	11.23	11.15	11.68	12.15
	12H	11.16	11.65	11.65	12.13	12.61	10.76	11.24	11.25	11.73	12.20
8H	4H	10.62	11.17	11.09	11.62	12.10	10.32	10.87	10.79	11.32	11.80
	6H	11.13	11.58	11.63	12.08	12.56	10.79	11.24	11.30	11.74	12.23
	8H	11.34	11.75	11.87	12.27	12.76	10.98	11.39	11.51	11.90	12.40
	12H	11.53	11.89	12.05	12.39	12.96	11.13	11.49	11.65	11.98	12.56
12H	4H	10.60	11.09	11.09	11.58	12.05	10.31	10.80	10.80	11.28	11.76
	6H	11.13	11.54	11.66	12.06	12.55	10.81	11.21	11.34	11.73	12.23
	8H	11.40	11.76	11.92	12.25	12.83	11.05	11.41	11.57	11.90	12.48