

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: P845448

Luminaire Tested: SQ2R-BBM-075D-930-UNV-STD-W-4

Issue Date: 6/14/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P845448  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P559649)  
Test Lab: INNOVATION CENTER  
Issue Date: 6/14/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ2R-BBM-075D-930-UNV-STD-W-4  
Description: CONTINUA SQ2 RECESSED, DISCREET OPTICS - BLACK BAFFLE, WIDE 80-DEGREE OPTIC  
750 LUMENS PER FOOT  
Light Source: 3000K CCT, 90 CRI LEDS  
Ballast/Driver: -

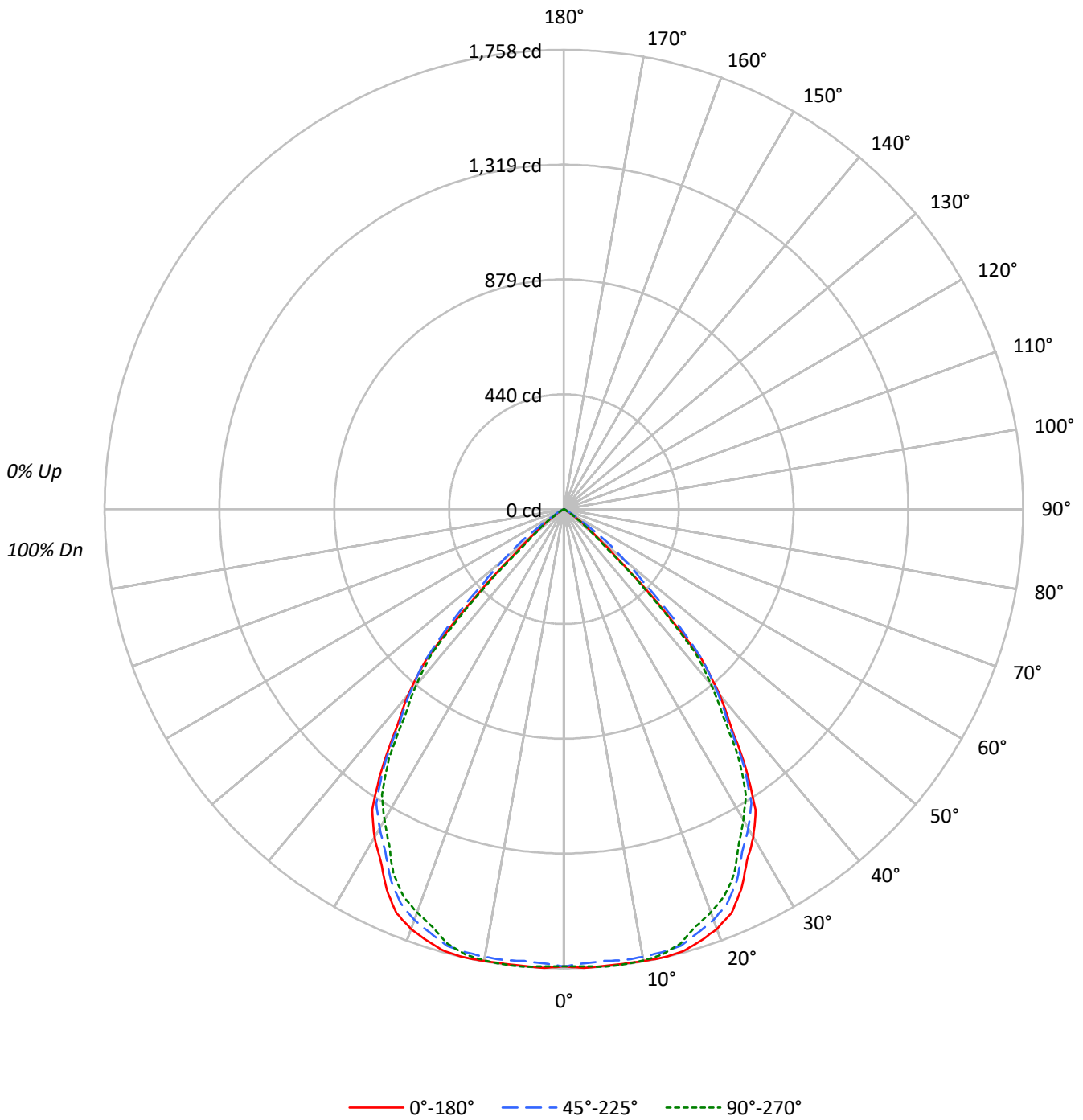
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2613.7 lumens  
Efficiency: N/A  
Efficacy: 103.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.17 / 1.16  
Luminous Opening: Rectangular (W 0.17' x L: 4' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 25.3  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	113	110	107	105	110	108	105	103	104	102	100	100	98	97	96	95	94	92
2	106	101	96	93	104	99	95	92	96	92	90	93	90	88	90	88	86	84
3	100	93	87	83	98	91	86	82	89	84	81	86	82	79	84	81	78	76
4	94	85	79	74	92	84	78	74	82	77	73	80	76	72	78	74	71	70
5	88	79	72	67	86	78	72	67	76	70	66	74	69	66	72	68	65	63
6	83	73	66	61	81	72	65	61	70	65	60	69	64	60	67	63	60	58
7	78	67	61	56	76	67	60	56	65	59	55	64	59	55	63	58	55	53
8	73	63	56	51	72	62	55	51	61	55	51	60	54	51	59	54	50	49
9	69	58	52	47	68	58	51	47	57	51	47	56	50	47	55	50	46	45
10	65	54	48	43	64	54	48	43	53	47	43	52	47	43	51	47	43	42

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

	0°	45°	90°
0°	28267	28267	28267
5°	28459	28143	28501
10°	28788	28532	28767
15°	29307	28916	28786
20°	29386	28761	28225
25°	28614	27920	27478
30°	27033	26306	25601
35°	23962	23680	23014
40°	19561	19285	18518
45°	11531	13611	10730
50°	3891	7586	3466
55°	1320	2711	1393
60°	126	798	42
65°	0	50	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°  
 Vertical Angle: 45°  
 Luminance: 13611 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.3	6.4
10°-20°	489.7	18.7
20°-30°	720.6	27.6
30°-40°	736.2	28.2
40°-50°	423.3	16.2
50°-60°	74.0	2.8
60°-70°	2.7	0.1
70°-80°	0.0	0.0
80°-90°	0.0	0.0
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°	1377.5	52.7
0°-40°	2113.7	80.9
0°-60°	2611.0	99.9
0°-90°	2613.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2613.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1751	1751	1751	1751	1751	
5°	1756	1752	1736	1761	1758	168
15°	1753	1768	1730	1731	1722	494
25°	1606	1620	1567	1550	1542	734
35°	1216	1222	1201	1182	1168	750
45°	505	588	596	565	470	395
55°	47	56	96	54	50	53
65°	0	0	1	0	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1750.7	1750.7	1750.7	1750.7	1750.7
2.5°	1758.0	1753.9	1740.3	1755.8	1751.7
5°	1755.9	1752.1	1736.4	1761.1	1758.5
7.5°	1754.9	1751.9	1741.3	1762.8	1757.7
10°	1755.9	1755.9	1740.3	1759.7	1754.6
12.5°	1758.0	1763.1	1737.2	1752.4	1745.2
15°	1753.3	1768.5	1729.9	1730.9	1722.1
17.5°	1734.3	1754.9	1702.0	1689.5	1676.0
20°	1710.3	1732.0	1673.9	1654.1	1642.7
22.5°	1673.9	1694.5	1633.3	1616.6	1604.1
25°	1606.2	1620.3	1567.2	1550.1	1542.4
27.5°	1517.7	1524.9	1478.7	1461.0	1448.2
30°	1450.0	1450.0	1411.0	1391.1	1373.2
32.5°	1365.7	1361.6	1336.0	1313.0	1296.2
35°	1215.7	1222.1	1201.4	1181.6	1167.6
37.5°	1049.9	1056.0	1034.8	1012.1	1002.5
40°	928.1	933.1	915.0	891.4	878.6
42.5°	778.1	805.6	789.0	763.1	746.4
45°	505.0	587.8	596.1	565.3	469.9
47.5°	263.2	349.7	413.4	315.8	221.3
50°	154.9	210.9	302.0	172.3	138.0
52.5°	99.7	124.2	212.4	110.2	93.2
55°	46.9	55.7	96.3	54.5	49.5
57.5°	17.4	26.0	43.5	26.4	19.0
60°	3.9	11.6	24.7	7.7	1.3
62.5°	0.8	3.4	14.3	1.6	0.3
65°	0.0	0.0	1.3	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
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	3.64	4.78	4.01	5.09	5.40	3.24	4.37	3.60	4.68	4.99
	3H	3.48	4.47	3.86	4.80	5.17	3.07	4.06	3.45	4.39	4.76
	4H	3.39	4.30	3.79	4.65	5.04	2.98	3.89	3.38	4.25	4.63
	6H	3.29	4.13	3.71	4.50	4.90	2.88	3.72	3.30	4.09	4.49
	8H	3.24	4.03	3.67	4.42	4.83	2.83	3.62	3.26	4.01	4.42
	12H	3.19	3.94	3.62	4.32	4.75	2.78	3.53	3.21	3.91	4.34
4H	2H	3.40	4.31	3.80	4.66	5.05	2.99	3.90	3.40	4.26	4.64
	3H	3.22	3.96	3.64	4.36	4.77	2.81	3.55	3.23	3.96	4.36
	4H	3.11	3.77	3.55	4.19	4.63	2.71	3.36	3.14	3.78	4.23
	6H	3.01	3.57	3.48	4.02	4.49	2.60	3.16	3.07	3.61	4.08
	8H	2.94	3.46	3.42	3.91	4.39	2.54	3.06	3.01	3.51	3.98
	12H	2.88	3.34	3.37	3.83	4.30	2.48	2.93	2.97	3.42	3.89
8H	4H	2.94	3.46	3.42	3.91	4.39	2.54	3.06	3.01	3.51	3.98
	6H	2.82	3.24	3.33	3.74	4.23	2.42	2.84	2.92	3.34	3.82
	8H	2.75	3.13	3.28	3.65	4.14	2.34	2.72	2.87	3.24	3.74
	12H	2.69	3.03	3.21	3.52	4.10	2.28	2.62	2.80	3.12	3.69
12H	4H	2.88	3.34	3.37	3.83	4.30	2.48	2.93	2.97	3.42	3.89
	6H	2.75	3.13	3.28	3.65	4.14	2.34	2.72	2.87	3.24	3.74
	8H	2.69	3.03	3.21	3.52	4.10	2.28	2.62	2.80	3.12	3.69