

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

(formerly Eaton)

Brand: CORELITE

Report Number: P519292

Luminaire Tested: **SQ4-WB-0U-075D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519292  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-WB-0U-075D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

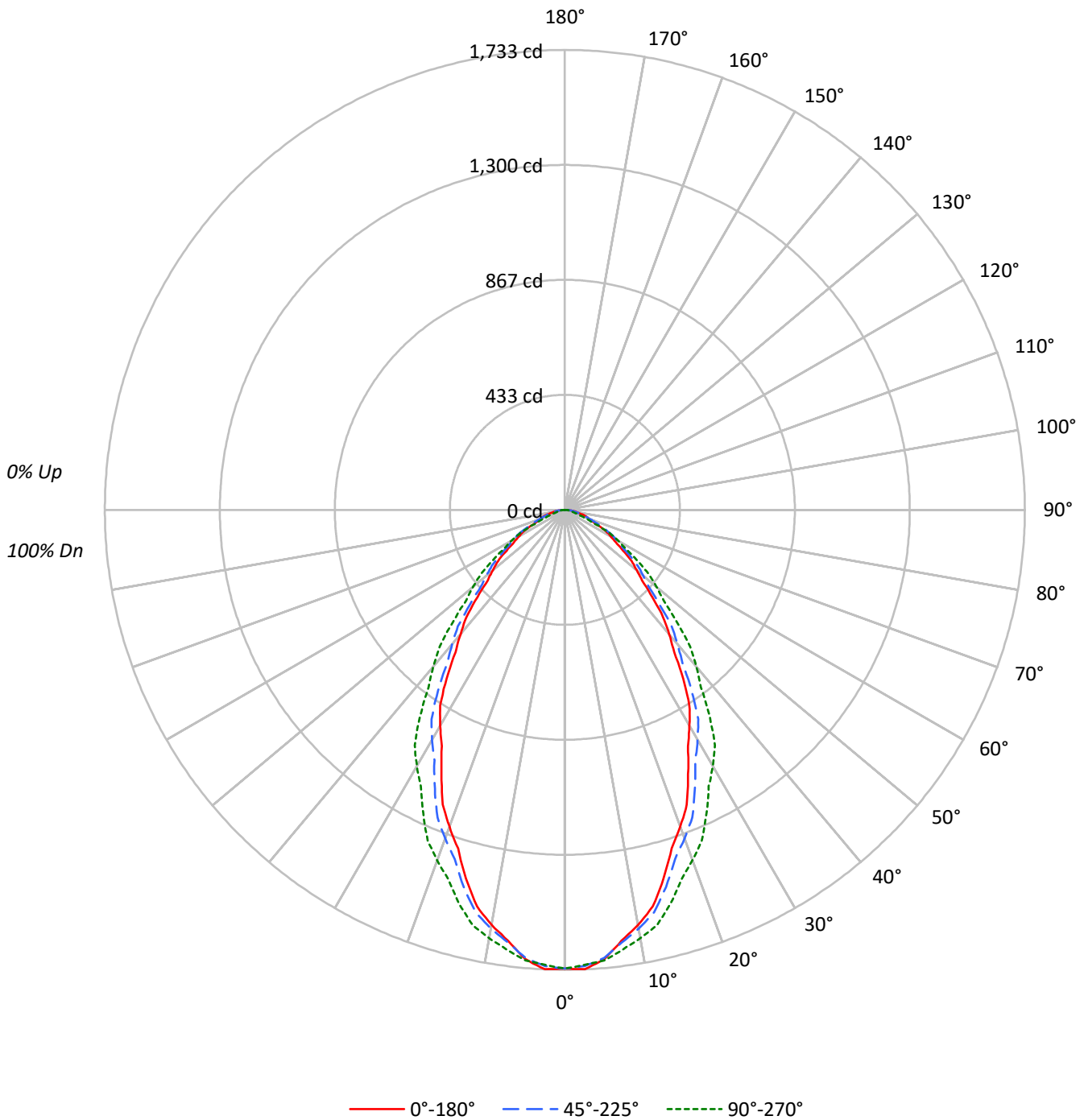
Lumens per Lamp: N/A  
Luminaire Lumens: 2518.5 lumens  
Efficiency: N/A  
Efficacy: 104.9 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 24  
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				
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				

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

	0°	45°	90°
0°	15946	15946	15946
5°	15747	15691	15782
10°	14877	15012	15361
15°	13734	14052	14683
20°	12472	12942	13798
25°	11187	11797	12854
30°	10003	10657	11877
35°	8747	9379	10720
40°	7361	7947	9280
45°	6075	6600	7748
50°	5072	5530	6455
55°	4306	4745	5331
60°	3681	4115	4253
65°	2930	3460	2749
70°	2598	2700	1678
75°	2406	2189	1027
80°	2216	2014	887
85°	2011	1842	720



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.5	6.3
10°-20°	412.3	16.4
20°-30°	534.1	21.2
30°-40°	523.0	20.8
40°-50°	400.3	15.9
50°-60°	266.8	10.6
60°-70°	145.6	5.8
70°-80°	60.7	2.4
80°-90°	17.2	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°	1105.0	43.9
0°-40°	1628.0	64.6
0°-60°	2295.1	91.1
0°-90°	2518.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2518.5	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1728	1728	1728	1728	1728	
5°	1700	1683	1694	1698	1704	158
15°	1438	1433	1471	1511	1537	402
25°	1099	1102	1159	1209	1263	505
35°	777	780	833	889	952	483
45°	466	474	506	544	594	363
55°	268	279	295	306	331	243
65°	134	145	158	138	126	140
75°	68	68	61	42	29	72
85°	19	19	17	11	7	22
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1728.3	1728.3	1728.3	1728.3	1728.3
2.5°	1732.6	1717.2	1721.1	1720.9	1716.2
5°	1700.3	1683.2	1694.2	1698.1	1704.1
7.5°	1637.2	1624.3	1644.3	1659.1	1671.2
10°	1588.0	1576.9	1602.4	1624.0	1639.6
12.5°	1531.0	1521.7	1553.3	1582.3	1602.6
15°	1437.9	1432.7	1471.2	1511.3	1537.2
17.5°	1338.2	1335.7	1379.9	1426.6	1459.9
20°	1270.3	1269.5	1318.1	1366.7	1405.3
22.5°	1201.7	1203.4	1254.3	1304.9	1348.8
25°	1098.9	1101.8	1158.8	1209.3	1262.7
27.5°	1003.8	1005.1	1064.0	1117.3	1174.3
30°	938.9	942.6	1000.3	1055.5	1114.8
32.5°	873.9	878.3	934.8	991.8	1052.3
35°	776.6	780.3	832.7	888.7	951.8
37.5°	676.2	681.2	727.7	780.7	842.7
40°	611.2	618.7	659.8	709.7	770.5
42.5°	548.8	558.0	596.1	643.4	698.3
45°	465.6	474.5	505.8	544.1	593.8
47.5°	394.1	404.3	428.3	461.3	503.7
50°	353.4	363.0	385.3	409.7	449.7
52.5°	317.6	327.2	347.0	365.9	400.0
55°	267.7	278.8	295.0	306.2	331.4
57.5°	226.8	237.4	250.3	255.3	270.6
60°	199.5	211.3	223.0	222.4	230.5
62.5°	174.6	184.7	196.3	188.2	188.7
65°	134.2	145.4	158.5	138.5	125.9
67.5°	108.4	110.8	124.4	96.6	81.6
70°	96.3	96.3	100.1	74.8	62.2
72.5°	84.8	84.8	81.3	60.8	47.6
75°	67.5	67.5	61.4	42.2	28.8
77.5°	52.0	51.4	47.0	31.5	20.9
80°	41.7	41.7	37.9	24.8	16.7
82.5°	32.6	32.6	29.4	19.4	12.4
85°	19.0	19.0	17.4	11.3	6.8
87.5°	6.7	6.7	6.1	3.6	3.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)