

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: P519312

Luminaire Tested: **SQ4-WB-0U-100D-835-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519312  
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-100D-835-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1000 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

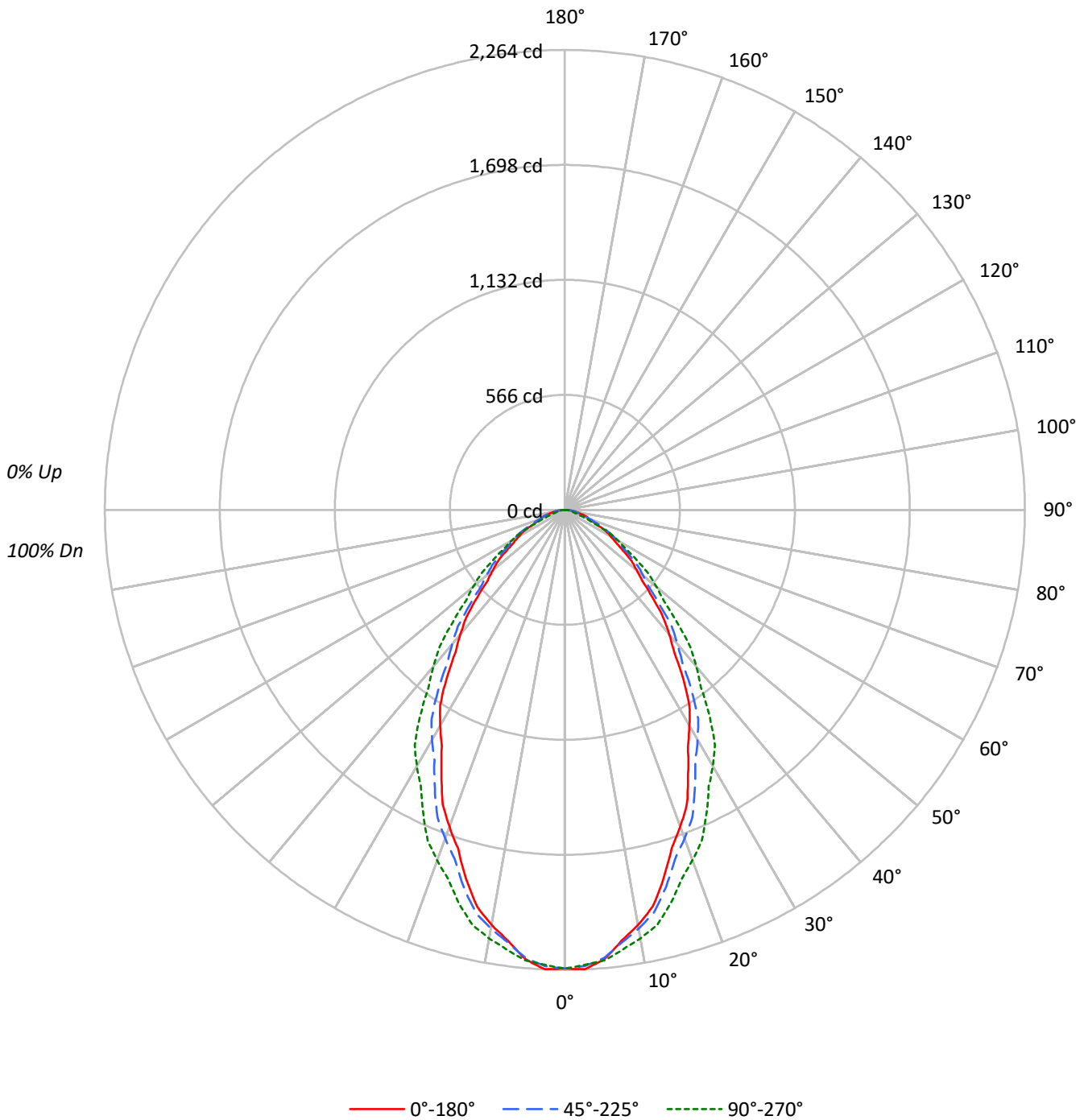
Lumens per Lamp: N/A  
Luminaire Lumens: 3290.4 lumens  
Efficiency: N/A  
Efficacy: 100.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Direct

Input Watts (W): 32.8  
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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89				89
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78				78
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69				69
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62				62
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55				55
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50				50
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45				45
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41				41
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38				38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35				35

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

	0°	45°	90°
0°	20833	20833	20833
5°	20573	20500	20619
10°	19437	19614	20068
15°	17944	18360	19184
20°	16294	16907	18026
25°	14615	15413	16794
30°	13068	13923	15517
35°	11428	12253	14006
40°	9618	10382	12125
45°	7938	8623	10122
50°	6627	7224	8433
55°	5627	6199	6965
60°	4809	5375	5558
65°	3829	4521	3591
70°	3394	3528	2190
75°	3144	2862	1344
80°	2896	2630	1158
85°	2625	2414	942



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	207.1	6.3
10°-20°	538.7	16.4
20°-30°	697.8	21.2
30°-40°	683.3	20.8
40°-50°	523.0	15.9
50°-60°	348.5	10.6
60°-70°	190.2	5.8
70°-80°	79.3	2.4
80°-90°	22.4	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°	1443.6	43.9
0°-40°	2127.0	64.6
0°-60°	2998.5	91.1
0°-90°	3290.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3290.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2258	2258	2258	2258	2258	
5°	2221	2199	2214	2219	2226	207
15°	1879	1872	1922	1974	2008	525
25°	1436	1440	1514	1580	1650	660
35°	1015	1019	1088	1161	1244	631
45°	608	620	661	711	776	474
55°	350	364	385	400	433	317
65°	175	190	207	181	164	182
75°	88	88	80	55	38	94
85°	25	25	23	15	9	28
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2258.0	2258.0	2258.0	2258.0	2258.0
2.5°	2263.6	2243.4	2248.5	2248.4	2242.2
5°	2221.4	2199.1	2213.5	2218.6	2226.3
7.5°	2139.0	2122.1	2148.3	2167.6	2183.3
10°	2074.7	2060.2	2093.6	2121.8	2142.1
12.5°	2000.2	1988.0	2029.4	2067.2	2093.8
15°	1878.6	1871.8	1922.2	1974.5	2008.4
17.5°	1748.4	1745.1	1802.9	1863.9	1907.3
20°	1659.6	1658.6	1722.0	1785.6	1836.0
22.5°	1570.0	1572.2	1638.8	1704.9	1762.2
25°	1435.7	1439.6	1514.0	1579.9	1649.7
27.5°	1311.4	1313.2	1390.1	1459.8	1534.2
30°	1226.6	1231.5	1306.9	1379.0	1456.5
32.5°	1141.8	1147.4	1221.3	1295.8	1374.8
35°	1014.6	1019.4	1087.9	1161.1	1243.5
37.5°	883.4	890.0	950.8	1020.0	1101.0
40°	798.6	808.3	862.0	927.2	1006.7
42.5°	716.9	729.0	778.8	840.6	912.3
45°	608.4	620.0	660.9	710.9	775.8
47.5°	514.8	528.2	559.6	602.7	658.1
50°	461.7	474.3	503.3	535.2	587.5
52.5°	414.9	427.5	453.4	478.0	522.6
55°	349.8	364.3	385.4	400.0	433.0
57.5°	296.3	310.2	327.0	333.6	353.5
60°	260.6	276.1	291.3	290.5	301.2
62.5°	228.1	241.3	256.4	245.9	246.5
65°	175.4	189.9	207.1	180.9	164.5
67.5°	141.7	144.8	162.5	126.2	106.6
70°	125.8	125.8	130.8	97.7	81.2
72.5°	110.8	110.8	106.2	79.5	62.2
75°	88.2	88.2	80.3	55.1	37.7
77.5°	68.0	67.2	61.4	41.1	27.3
80°	54.5	54.5	49.5	32.5	21.8
82.5°	42.6	42.6	38.4	25.4	16.2
85°	24.8	24.8	22.8	14.7	8.9
87.5°	8.7	8.7	7.9	4.7	4.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)