

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: P518663

Luminaire Tested: **SQ4-BB-0U-125D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P518663  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 4/29/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-BB-0U-125D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
DIRECT ONLY  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

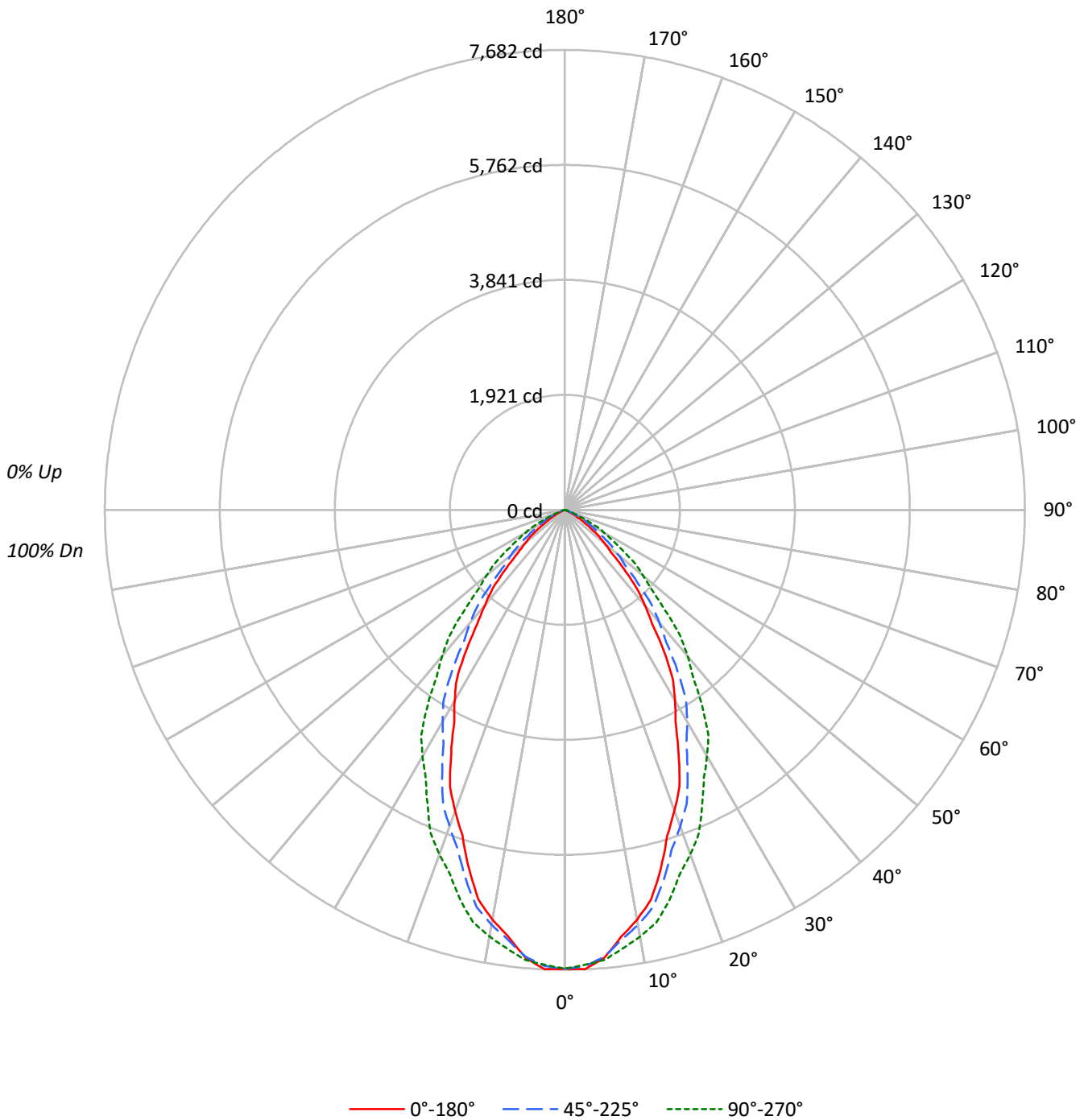
Lumens per Lamp: N/A  
Luminaire Lumens: 9142.9 lumens  
Efficiency: N/A  
Efficacy: 64.9 lumens/watt  
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Direct

Input Watts (W): 140.8  
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	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	86	84	82				82
3	99	91	85	81	97	90	84	80	87	82	79	85	81	77	82	79	76	74				74
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	67				67
5	87	77	70	65	85	76	70	65	74	68	64	72	67	64	71	66	63	61				61
6	82	71	64	59	80	70	64	59	69	63	58	67	62	58	66	61	58	56				56
7	77	66	59	54	75	65	59	54	64	58	53	62	57	53	61	56	53	51				51
8	72	61	54	50	71	61	54	49	59	53	49	58	53	49	57	52	49	47				47
9	68	57	50	46	67	57	50	46	56	50	46	55	49	45	54	49	45	44				44
10	65	54	47	42	63	53	47	42	52	46	42	51	46	42	51	46	42	41				41

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

	0°	45°	90°
0°	23571	23571	23571
5°	23192	23134	23306
10°	21700	21989	22603
15°	19727	20353	21486
20°	17511	18421	20035
25°	15250	16458	18408
30°	13062	14497	16868
35°	10831	12306	15007
40°	8321	9840	12787
45°	6015	7451	10289
50°	4098	5553	8161
55°	2664	4016	6342
60°	1528	2828	4584
65°	405	1727	2321
70°	200	533	667
75°	88	44	0
80°	66	0	0
85°	0	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	699.5	7.7
10°-20°	1788.7	19.6
20°-30°	2239.3	24.5
30°-40°	2068.4	22.6
40°-50°	1389.8	15.2
50°-60°	717.9	7.9
60°-70°	224.8	2.5
70°-80°	14.2	0.2
80°-90°	0.3	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°	4727.5	51.7
0°-40°	6795.8	74.3
0°-60°	8903.5	97.4
0°-90°	9142.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9142.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	7664	7664	7664	7664	7664	
5°	7512	7436	7494	7520	7549	696
15°	6196	6174	6392	6607	6748	1726
25°	4494	4530	4850	5182	5425	2060
35°	2885	2957	3278	3664	3997	1787
45°	1383	1466	1713	2047	2366	1086
55°	497	580	749	962	1183	464
65°	56	106	237	286	319	94
75°	7	7	4	0	0	11
85°	0	0	0	0	0	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	7664.3	7664.3	7664.3	7664.3	7664.3
2.5°	7682.1	7609.6	7628.7	7628.3	7607.9
5°	7512.3	7436.1	7493.7	7520.4	7549.4
7.5°	7194.9	7135.4	7246.1	7329.0	7389.2
10°	6948.7	6897.9	7041.4	7154.5	7237.9
12.5°	6663.9	6624.8	6798.1	6953.3	7059.9
15°	6196.0	6174.2	6392.5	6607.1	6748.4
17.5°	5694.7	5693.9	5943.1	6209.5	6379.9
20°	5350.6	5361.4	5628.7	5922.4	6121.8
22.5°	5006.5	5031.8	5317.2	5623.5	5851.9
25°	4494.0	4530.3	4850.0	5181.8	5424.7
27.5°	4001.6	4054.5	4390.9	4735.8	5031.7
30°	3678.3	3739.9	4082.4	4445.3	4749.9
32.5°	3360.9	3434.1	3768.0	4151.8	4462.1
35°	2884.8	2957.3	3277.8	3663.6	3997.2
37.5°	2393.1	2464.2	2777.2	3157.0	3517.4
40°	2072.7	2152.5	2450.9	2818.9	3185.1
42.5°	1782.0	1861.8	2142.4	2504.0	2849.9
45°	1383.1	1466.4	1713.1	2046.6	2365.7
47.5°	1052.3	1143.0	1359.3	1661.1	1951.9
50°	856.5	947.2	1160.6	1426.5	1705.7
52.5°	699.3	787.1	979.6	1230.2	1486.1
55°	496.9	580.3	749.0	961.7	1182.8
57.5°	343.4	415.1	566.6	744.0	917.3
60°	248.4	317.3	459.8	603.9	745.3
62.5°	165.4	228.5	367.8	478.3	573.2
65°	55.6	106.4	237.3	286.3	318.9
67.5°	28.2	34.0	124.6	131.5	142.4
70°	22.2	22.2	59.3	63.3	74.2
72.5°	16.3	16.3	23.7	30.5	32.6
75°	7.4	7.4	3.7	0.0	0.0
77.5°	3.7	3.7	3.0	0.0	0.0
80°	3.7	3.7	0.0	0.0	0.0
82.5°	0.7	0.7	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

(END OF REPORT)