

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: P519532

Luminaire Tested: **SQ4-WB-125U-125D-840-1D-UNV-STD-W-4**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519532  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-24, 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-125U-125D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1250 LUMENS PER FOOT  
Light Source: 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

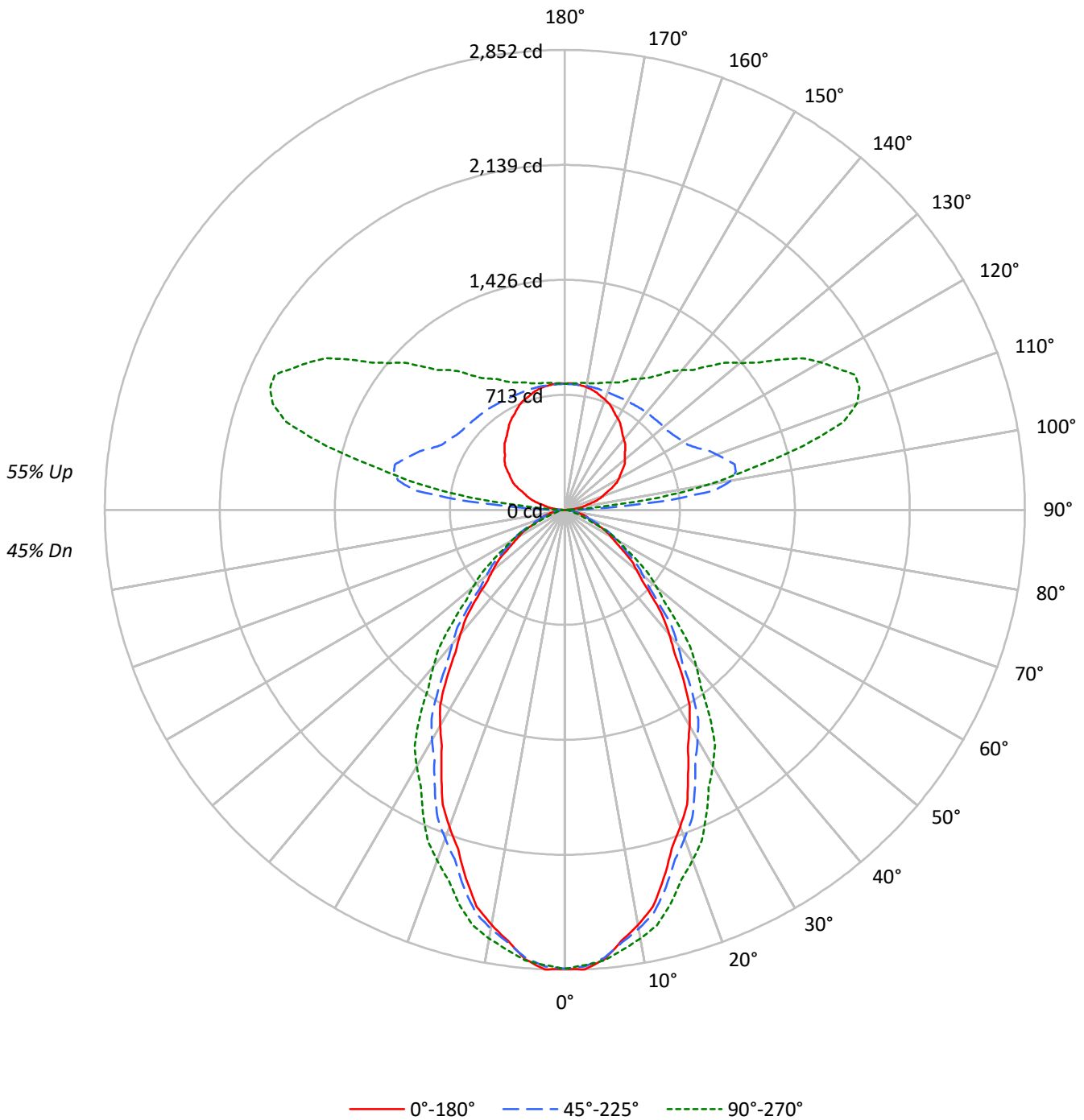
Lumens per Lamp: N/A  
Luminaire Lumens: 9197.7 lumens  
Efficiency: N/A  
Efficacy: 122.1 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 75.3  
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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	90	86	83	81	72	70	68	59	58	57	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	38	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	23
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

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

	0°	45°	90°
0°	26252	26252	26252
5°	25925	25832	25982
10°	24493	24715	25288
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19420	21162
30°	16467	17544	19552
35°	14400	15441	17648
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7813	8776
60°	6060	6774	7005
65°	4825	5696	4526
70°	4278	4446	2762
75°	3960	3604	1690
80°	3650	3315	1461
85°	3303	3038	1186



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	261.0	2.8
10°-20°	678.8	7.4
20°-30°	879.3	9.6
30°-40°	861.1	9.4
40°-50°	659.1	7.2
50°-60°	439.2	4.8
60°-70°	239.7	2.6
70°-80°	99.9	1.1
80°-90°	30.1	0.3
90°-100°	365.9	4.0
100°-110°	985.7	10.7
110°-120°	1034.5	11.2
120°-130°	839.4	9.1
130°-140°	658.3	7.2
140°-150°	505.4	5.5
150°-160°	363.4	4.0
160°-170°	222.0	2.4
170°-180°	74.9	0.8
0°-30°	1819.1	19.8
0°-40°	2680.2	29.1
0°-60°	3778.5	41.1
0°-90°	4148.1	45.1
90°-120°	2386.1	25.9
90°-150°	4389.3	47.7
90°-180°	5050.0	54.9
0°-180°	9197.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2845	2845	2845	2845	2845	
5°	2799	2771	2789	2796	2805	260
15°	2367	2359	2422	2488	2531	661
25°	1809	1814	1908	1991	2079	832
35°	1278	1285	1371	1463	1567	795
45°	767	781	833	896	978	598
55°	441	459	486	504	546	400
65°	221	239	261	228	207	230
75°	111	111	101	69	47	119
85°	31	31	29	19	11	34
90°	2	6	12	13	13	5
95°	56	199	600	307	212	58
105°	182	284	1090	1631	1530	192
115°	322	394	908	1754	1984	317
125°	439	505	815	1378	1621	392
135°	529	590	792	1111	1258	408
145°	612	660	782	950	1020	384
155°	694	720	775	853	880	320
165°	753	762	778	809	813	212
175°	783	782	779	790	788	74
180°	782	782	782	782	782	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2845.4	2845.4	2845.4	2845.4	2845.4
2.5°	2852.4	2827.0	2833.4	2833.2	2825.4
5°	2799.2	2771.1	2789.2	2795.7	2805.4
7.5°	2695.3	2674.1	2707.1	2731.5	2751.3
10°	2614.4	2596.1	2638.1	2673.7	2699.3
12.5°	2520.5	2505.1	2557.2	2604.9	2638.4
15°	2367.2	2358.7	2422.1	2488.0	2530.8
17.5°	2203.2	2199.0	2271.8	2348.7	2403.4
20°	2091.3	2090.1	2169.9	2250.0	2313.5
22.5°	1978.4	1981.1	2065.1	2148.4	2220.6
25°	1809.1	1814.0	1907.7	1990.9	2078.8
27.5°	1652.6	1654.7	1751.7	1839.5	1933.2
30°	1545.7	1551.8	1646.8	1737.7	1835.3
32.5°	1438.8	1445.9	1538.9	1632.8	1732.5
35°	1278.5	1284.6	1370.9	1463.1	1566.9
37.5°	1113.2	1121.5	1198.1	1285.3	1387.4
40°	1006.3	1018.5	1086.2	1168.4	1268.5
42.5°	903.4	918.6	981.3	1059.3	1149.6
45°	766.6	781.2	832.8	895.8	977.6
47.5°	648.7	665.6	705.2	759.4	829.3
50°	581.8	597.7	634.3	674.5	740.4
52.5°	522.9	538.8	571.3	602.3	658.5
55°	440.7	459.0	485.7	504.1	545.6
57.5°	373.3	390.9	412.0	420.3	445.5
60°	328.4	347.9	367.1	366.1	379.6
62.5°	287.4	304.0	323.1	309.9	310.6
65°	221.0	239.3	260.9	228.0	207.3
67.5°	178.5	182.4	204.8	159.0	134.3
70°	158.6	158.6	164.8	123.1	102.4
72.5°	139.6	139.6	133.8	100.1	78.4
75°	111.1	111.1	101.1	69.4	47.4
77.5°	85.6	84.7	77.4	51.8	34.5
80°	68.7	68.7	62.4	40.9	27.5
82.5°	53.7	53.7	48.4	32.0	20.5
85°	31.2	31.2	28.7	18.6	11.2
87.5°	11.4	12.2	12.4	8.6	7.6
90°	2.0	5.9	12.0	13.0	13.0
92.5°	24.3	85.9	169.8	81.7	56.8
95°	55.8	199.0	599.9	306.8	212.2
97.5°	89.1	227.8	940.8	786.0	592.7
100°	114.6	239.3	1049.3	1097.8	910.8
102.5°	139.3	255.4	1085.1	1331.4	1177.8
105°	182.3	283.7	1090.1	1630.9	1530.5
107.5°	223.0	313.4	1043.7	1784.8	1810.7
110°	250.1	335.8	1001.4	1832.6	1927.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	278.8	358.3	960.8	1822.0	1977.3
115°	321.9	394.0	907.8	1754.0	1983.9
117.5°	361.1	428.7	866.7	1645.4	1901.4
120°	386.6	451.9	846.0	1567.4	1830.5
122.5°	408.9	473.4	830.8	1487.7	1750.0
125°	439.4	504.7	815.1	1377.6	1621.2
127.5°	468.7	533.0	805.1	1280.6	1498.1
130°	486.3	550.6	801.1	1225.0	1416.0
132.5°	503.8	567.3	797.2	1176.0	1351.4
135°	529.1	590.5	792.2	1111.4	1258.5
137.5°	553.2	612.1	789.6	1056.6	1177.4
140°	570.0	626.5	787.2	1022.8	1132.0
142.5°	587.5	640.1	785.6	991.4	1083.3
145°	611.8	659.6	782.2	950.2	1020.4
147.5°	638.1	679.6	778.8	915.6	970.7
150°	655.7	691.7	777.2	893.9	939.6
152.5°	671.6	703.0	776.4	876.1	913.3
155°	694.5	719.9	775.2	852.6	879.9
157.5°	714.7	734.3	775.4	836.0	854.4
160°	727.4	744.0	776.2	826.4	840.0
162.5°	738.6	752.0	777.0	818.3	828.0
165°	753.3	762.1	778.2	809.2	813.1
167.5°	765.3	770.3	779.2	802.2	803.7
170°	773.2	775.2	779.2	798.2	798.2
172.5°	778.0	778.4	780.0	794.2	794.2
175°	783.2	782.2	779.2	790.1	788.2
177.5°	785.4	783.8	779.8	786.2	784.6
180°	782.2	782.2	782.2	782.2	782.2

(END OF REPORT)