

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: P565185

Luminaire Tested: **SQ4-PW1-150U-125D-935-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565185  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, G2-2106-289-3)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PW1-150U-125D-935-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 1500 LUMENS PER FOOT  
Light Source: 3500K CCT, 90 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

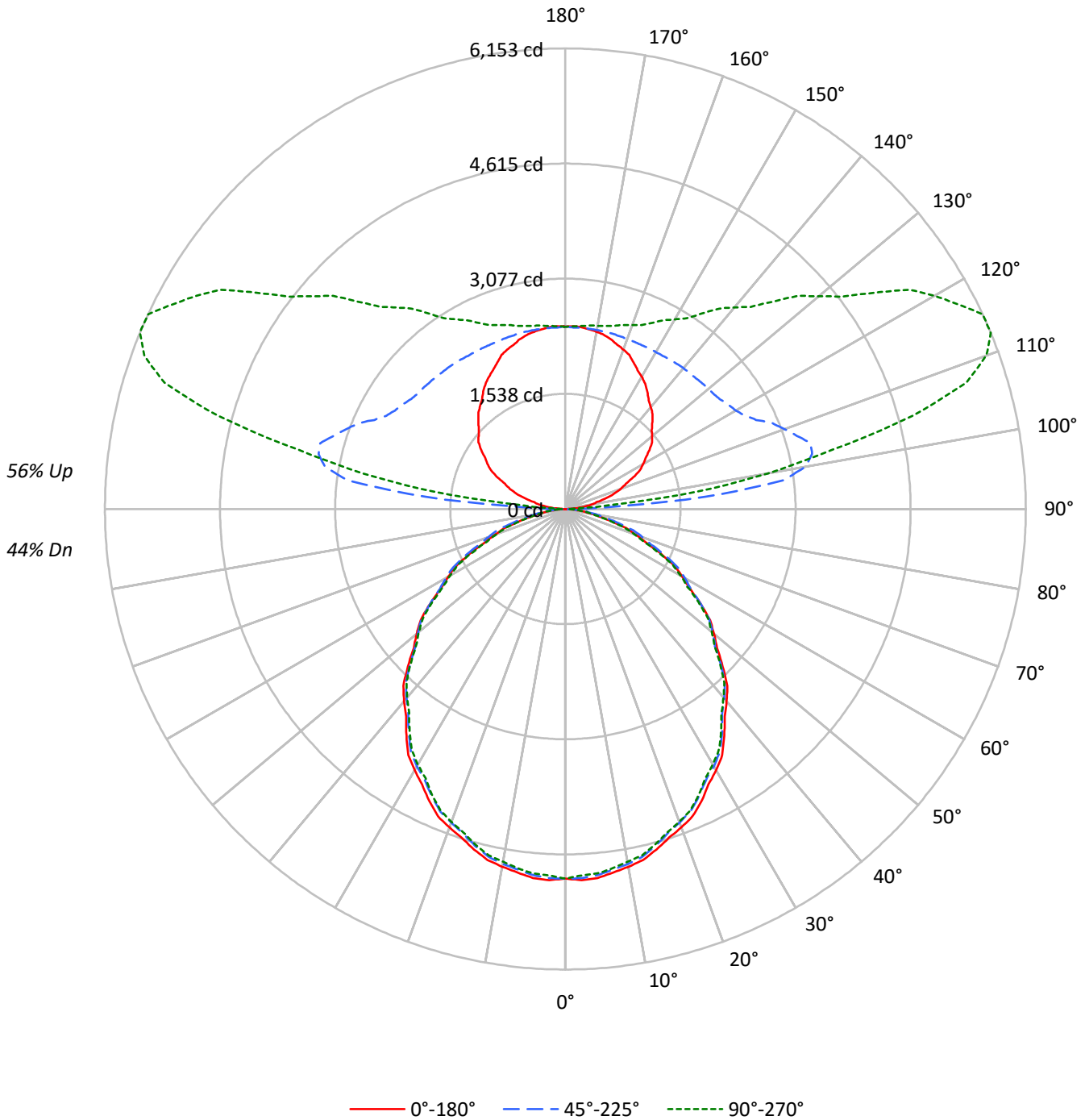
Lumens per Lamp: N/A  
Luminaire Lumens: 28267.7 lumens  
Efficiency: N/A  
Efficacy: 110.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 256.3  
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	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

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

	0°	45°	90°
0°	15182	15182	15182
5°	15280	15159	15092
10°	15158	15036	14954
15°	14998	14832	14776
20°	14818	14591	14562
25°	14612	14346	14302
30°	14303	14086	13994
35°	13896	13700	13619
40°	13463	13253	13201
45°	12939	12769	12712
50°	12403	12298	12215
55°	11824	11824	11637
60°	11102	11316	10915
65°	10160	10667	9907
70°	8956	9816	8721
75°	7649	8786	7442
80°	5931	7394	6009
85°	3836	5678	5064



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	464.9	1.6
10°-20°	1312.4	4.6
20°-30°	1946.8	6.9
30°-40°	2277.9	8.1
40°-50°	2267.7	8.0
50°-60°	1958.3	6.9
60°-70°	1409.6	5.0
70°-80°	739.2	2.6
80°-90°	188.3	0.7
90°-100°	1131.9	4.0
100°-110°	3060.3	10.8
110°-120°	3217.5	11.4
120°-130°	2613.5	9.2
130°-140°	2050.0	7.3
140°-150°	1573.4	5.6
150°-160°	1131.6	4.0
160°-170°	691.3	2.4
170°-180°	233.1	0.8
0°-30°	3724.1	13.2
0°-40°	6002.0	21.2
0°-60°	10228.0	36.2
0°-90°	12565.2	44.5
90°-120°	7409.7	26.2
90°-150°	13646.6	48.3
90°-180°	15703.0	55.6
0°-180°	28267.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4937	4937	4937	4937	4937	
5°	4950	4894	4910	4897	4889	469
15°	4710	4651	4658	4649	4641	1328
25°	4306	4234	4228	4202	4215	1980
35°	3701	3650	3649	3615	3627	2314
45°	2975	2950	2936	2927	2923	2295
55°	2205	2201	2205	2175	2170	1968
65°	1396	1439	1466	1408	1361	1384
75°	644	703	739	690	626	690
85°	109	143	161	152	144	144
90°	5	16	34	37	34	16
95°	176	616	1882	974	579	184
105°	569	879	3395	5008	4803	599
115°	1002	1224	2816	5451	6153	989
125°	1371	1571	2538	4282	5031	1222
135°	1644	1839	2470	3458	3914	1270
145°	1911	2055	2436	2960	3185	1196
155°	2158	2242	2414	2655	2742	995
165°	2349	2372	2425	2520	2532	662
175°	2438	2436	2428	2459	2454	231
180°	2436	2436	2436	2436	2436	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	4936.6	4936.6	4936.6	4936.6	4936.6
2.5°	4964.5	4923.6	4936.6	4925.6	4901.8
5°	4949.7	4894.4	4910.5	4897.3	4888.8
7.5°	4899.2	4848.2	4860.1	4846.0	4840.9
10°	4854.0	4803.0	4814.8	4797.3	4788.7
12.5°	4801.8	4747.4	4759.2	4741.7	4736.6
15°	4710.5	4650.9	4658.3	4649.4	4640.9
17.5°	4604.3	4543.9	4545.2	4531.2	4529.5
20°	4527.8	4464.0	4458.2	4441.0	4449.5
22.5°	4444.3	4377.1	4371.2	4347.1	4359.0
25°	4306.0	4233.7	4227.7	4201.9	4214.6
27.5°	4145.9	4074.4	4074.6	4038.3	4051.9
30°	4027.6	3959.5	3966.7	3923.6	3940.6
32.5°	3902.3	3841.1	3844.9	3801.8	3818.8
35°	3701.4	3650.3	3649.2	3614.7	3627.4
37.5°	3496.1	3451.0	3443.9	3424.0	3427.4
40°	3353.4	3315.2	3301.2	3288.2	3288.2
42.5°	3203.8	3168.9	3155.1	3145.4	3142.0
45°	2975.0	2949.5	2935.9	2927.1	2922.8
47.5°	2748.9	2725.0	2713.2	2707.0	2702.7
50°	2592.3	2575.3	2570.5	2557.4	2553.1
52.5°	2435.7	2425.5	2420.9	2404.3	2400.0
55°	2205.2	2200.9	2205.2	2174.6	2170.4
57.5°	1965.1	1971.9	1986.0	1944.8	1934.6
60°	1805.0	1822.0	1839.8	1791.6	1774.6
62.5°	1641.5	1668.7	1693.7	1638.3	1614.5
65°	1396.2	1438.7	1465.8	1408.2	1361.4
67.5°	1159.6	1212.3	1244.8	1182.7	1130.0
70°	996.0	1055.6	1091.7	1029.5	969.9
72.5°	853.4	919.7	949.0	890.3	830.7
75°	643.7	703.3	739.4	690.1	626.3
77.5°	456.7	512.8	542.8	499.9	447.1
80°	334.9	394.4	417.5	381.8	339.3
82.5°	237.5	286.8	302.7	281.2	252.3
85°	108.7	142.8	160.9	152.0	143.5
87.5°	28.9	54.8	72.9	73.5	76.4
90°	5.2	15.5	34.1	36.6	34.1
92.5°	74.5	271.3	535.3	232.4	168.3
95°	175.6	616.5	1882.3	974.1	579.4
97.5°	282.1	707.1	2934.1	2428.2	1783.2
100°	361.8	743.7	3261.3	3401.2	2750.1
102.5°	435.2	794.6	3376.7	4139.0	3651.9
105°	568.9	879.1	3395.0	5007.9	4802.8
107.5°	692.6	975.6	3246.6	5550.0	5618.1
110°	789.1	1045.4	3114.5	5695.5	5985.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	875.1	1115.0	2992.8	5666.4	6153.0
115°	1001.5	1224.5	2815.6	5450.6	6153.0
117.5°	1125.2	1334.4	2698.7	5120.8	5917.0
120°	1200.7	1405.8	2629.5	4884.2	5696.8
122.5°	1272.0	1473.0	2587.5	4630.6	5449.3
125°	1371.1	1571.1	2537.7	4282.4	5030.9
127.5°	1462.3	1658.7	2508.4	3998.3	4656.5
130°	1512.7	1715.2	2495.8	3822.7	4417.4
132.5°	1565.1	1765.6	2483.2	3664.4	4211.9
135°	1643.8	1838.6	2469.6	3457.8	3914.1
137.5°	1722.9	1907.0	2458.0	3290.2	3661.9
140°	1777.5	1949.2	2453.8	3182.3	3513.0
142.5°	1829.9	1991.4	2445.5	3084.9	3374.6
145°	1911.2	2054.7	2435.5	2959.7	3185.3
147.5°	1985.1	2112.2	2424.0	2846.3	3019.6
150°	2039.6	2152.4	2419.8	2784.7	2923.1
152.5°	2090.0	2188.4	2417.7	2727.5	2841.3
155°	2157.6	2242.2	2414.5	2655.1	2742.2
157.5°	2227.9	2286.8	2415.0	2604.6	2662.0
160°	2267.7	2316.4	2417.1	2572.7	2613.8
162.5°	2299.2	2339.7	2419.2	2547.3	2578.1
165°	2349.0	2372.0	2425.0	2519.7	2532.5
167.5°	2383.1	2399.0	2425.5	2495.9	2502.1
170°	2404.0	2411.7	2427.6	2485.3	2485.3
172.5°	2420.8	2422.3	2427.6	2472.7	2470.6
175°	2438.1	2435.5	2427.6	2459.0	2453.8
177.5°	2443.9	2437.7	2427.1	2447.9	2441.8
180°	2435.5	2435.5	2435.5	2435.5	2435.5

(END OF REPORT)