

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: P565176

Luminaire Tested: **SQ4-PW1-150U-125D-835-1D-UNV-STD-W-8**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P565176  
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-835-1D-UNV-STD-W-8  
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, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

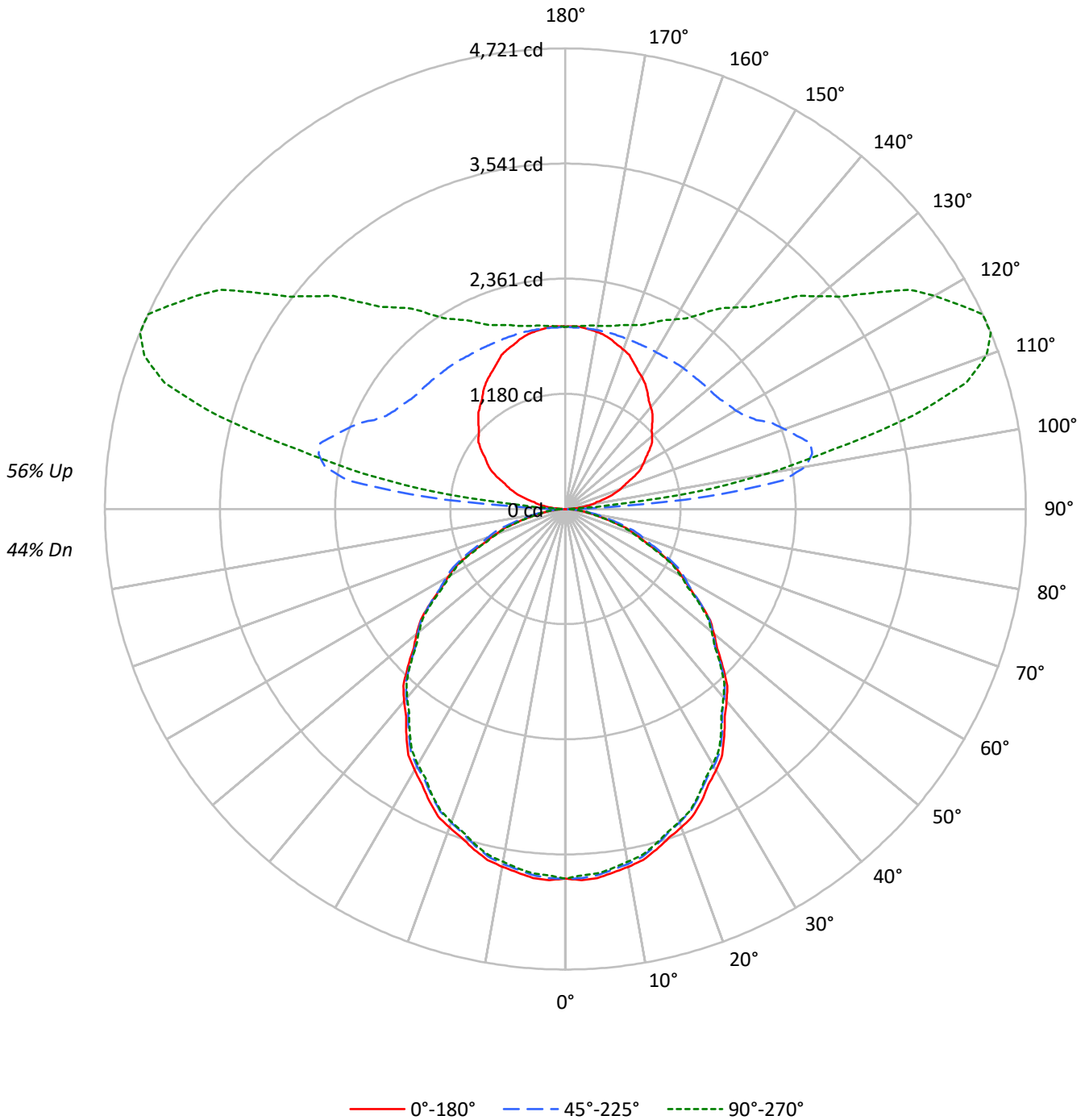
Lumens per Lamp: N/A  
Luminaire Lumens: 21688.7 lumens  
Efficiency: N/A  
Efficacy: 129.3 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 167.8  
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	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°	17473	17473	17473
5°	17586	17447	17370
10°	17446	17305	17211
15°	17260	17069	17005
20°	17054	16792	16759
25°	16816	16510	16460
30°	16461	16212	16105
35°	15993	15768	15674
40°	15494	15253	15193
45°	14891	14696	14631
50°	14274	14155	14058
55°	13607	13607	13393
60°	12777	13024	12562
65°	11693	12276	11401
70°	10307	11297	10038
75°	8803	10111	8566
80°	6827	8512	6915
85°	4414	6537	5828



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	356.7	1.6
10°-20°	1007.0	4.6
20°-30°	1493.7	6.9
30°-40°	1747.8	8.1
40°-50°	1740.0	8.0
50°-60°	1502.5	6.9
60°-70°	1081.5	5.0
70°-80°	567.2	2.6
80°-90°	144.5	0.7
90°-100°	868.4	4.0
100°-110°	2348.1	10.8
110°-120°	2468.6	11.4
120°-130°	2005.2	9.2
130°-140°	1572.9	7.3
140°-150°	1207.2	5.6
150°-160°	868.2	4.0
160°-170°	530.4	2.4
170°-180°	178.8	0.8
0°-30°	2857.3	13.2
0°-40°	4605.1	21.2
0°-60°	7847.5	36.2
0°-90°	9640.8	44.5
90°-120°	5685.1	26.2
90°-150°	10470.5	48.3
90°-180°	12048.0	55.5
0°-180°	21688.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3788	3788	3788	3788	3788	
5°	3798	3755	3768	3758	3751	360
15°	3614	3568	3574	3567	3561	1019
25°	3304	3248	3244	3224	3234	1519
35°	2840	2801	2800	2773	2783	1775
45°	2283	2263	2253	2246	2243	1761
55°	1692	1689	1692	1668	1665	1510
65°	1071	1104	1125	1080	1044	1062
75°	494	540	567	530	481	529
85°	83	110	124	117	110	110
90°	4	12	26	28	26	12
95°	135	473	1444	747	444	141
105°	436	674	2605	3842	3685	460
115°	768	940	2160	4182	4721	759
125°	1052	1205	1947	3286	3860	938
135°	1261	1411	1895	2653	3003	975
145°	1466	1576	1869	2271	2444	917
155°	1655	1720	1853	2037	2104	764
165°	1802	1820	1861	1933	1943	508
175°	1871	1869	1863	1887	1883	178
180°	1869	1869	1869	1869	1869	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3787.7	3787.7	3787.7	3787.7	3787.7
2.5°	3809.0	3777.7	3787.7	3779.3	3761.0
5°	3797.7	3755.3	3767.7	3757.5	3751.0
7.5°	3759.0	3719.8	3728.9	3718.2	3714.3
10°	3724.3	3685.1	3694.2	3680.7	3674.2
12.5°	3684.2	3642.5	3651.5	3638.1	3634.2
15°	3614.1	3568.5	3574.1	3567.3	3560.7
17.5°	3532.7	3486.4	3487.3	3476.6	3475.3
20°	3474.0	3425.0	3420.6	3407.4	3413.9
22.5°	3409.9	3358.4	3353.8	3335.4	3344.5
25°	3303.8	3248.3	3243.7	3223.9	3233.7
27.5°	3181.0	3126.2	3126.3	3098.5	3108.9
30°	3090.2	3038.0	3043.5	3010.4	3023.5
32.5°	2994.1	2947.1	2950.0	2917.0	2930.0
35°	2839.9	2800.8	2799.9	2773.4	2783.2
37.5°	2682.4	2647.8	2642.4	2627.1	2629.7
40°	2572.9	2543.6	2532.9	2522.9	2522.9
42.5°	2458.2	2431.4	2420.8	2413.4	2410.8
45°	2282.6	2263.0	2252.6	2245.8	2242.6
47.5°	2109.1	2090.8	2081.7	2077.0	2073.7
50°	1988.9	1975.9	1972.3	1962.2	1958.9
52.5°	1868.8	1861.0	1857.5	1844.7	1841.4
55°	1691.9	1688.7	1691.9	1668.5	1665.2
57.5°	1507.7	1512.9	1523.7	1492.2	1484.4
60°	1384.9	1398.0	1411.6	1374.6	1361.6
62.5°	1259.4	1280.3	1299.5	1257.0	1238.8
65°	1071.2	1103.9	1124.6	1080.4	1044.5
67.5°	889.7	930.1	955.1	907.5	867.0
70°	764.2	809.9	837.6	789.9	744.2
72.5°	654.8	705.7	728.2	683.1	637.4
75°	493.9	539.6	567.3	529.5	480.6
77.5°	350.4	393.5	416.5	383.5	343.1
80°	257.0	302.6	320.4	292.9	260.3
82.5°	182.2	220.1	232.3	215.7	193.6
85°	83.4	109.5	123.5	116.7	110.1
87.5°	22.2	42.0	56.0	56.4	58.6
90°	4.0	11.9	26.1	28.1	26.1
92.5°	57.1	208.2	410.7	178.3	129.1
95°	134.8	473.1	1444.2	747.4	444.5
97.5°	216.4	542.5	2251.2	1863.0	1368.2
100°	277.6	570.6	2502.3	2609.6	2110.0
102.5°	333.9	609.6	2590.8	3175.7	2802.0
105°	436.5	674.5	2604.9	3842.4	3685.0
107.5°	531.4	748.6	2491.0	4258.3	4310.6
110°	605.5	802.1	2389.6	4369.9	4592.2

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	671.4	855.5	2296.3	4347.6	4720.9
115°	768.4	939.5	2160.3	4182.0	4720.9
117.5°	863.3	1023.8	2070.6	3929.0	4539.9
120°	921.3	1078.6	2017.5	3747.5	4370.9
122.5°	976.0	1130.2	1985.3	3552.9	4181.0
125°	1052.0	1205.4	1947.1	3285.7	3860.0
127.5°	1122.0	1272.7	1924.6	3067.7	3572.8
130°	1160.6	1316.0	1914.9	2933.0	3389.3
132.5°	1200.8	1354.6	1905.3	2811.5	3231.6
135°	1261.2	1410.7	1894.8	2653.0	3003.1
137.5°	1321.9	1463.2	1886.0	2524.4	2809.6
140°	1363.8	1495.5	1882.7	2441.7	2695.4
142.5°	1404.0	1527.9	1876.3	2366.9	2589.2
145°	1466.4	1576.5	1868.7	2270.9	2443.9
147.5°	1523.1	1620.6	1859.8	2183.9	2316.8
150°	1564.9	1651.5	1856.6	2136.6	2242.8
152.5°	1603.5	1679.1	1855.0	2092.7	2180.0
155°	1655.4	1720.3	1852.6	2037.1	2104.0
157.5°	1709.3	1754.6	1853.0	1998.4	2042.4
160°	1739.9	1777.3	1854.6	1974.0	2005.4
162.5°	1764.1	1795.1	1856.2	1954.5	1978.1
165°	1802.3	1820.0	1860.6	1933.2	1943.1
167.5°	1828.4	1840.6	1861.0	1915.0	1919.7
170°	1844.5	1850.4	1862.6	1906.9	1906.9
172.5°	1857.4	1858.6	1862.6	1897.2	1895.6
175°	1870.7	1868.7	1862.6	1886.7	1882.7
177.5°	1875.1	1870.4	1862.2	1878.2	1873.5
180°	1868.7	1868.7	1868.7	1868.7	1868.7

(END OF REPORT)