

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: P519383

Luminaire Tested: **SQ4-WB-100U-075D-835-1D-UNV-STD-W-12**

Issue Date: 4/29/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P519383  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 1000 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

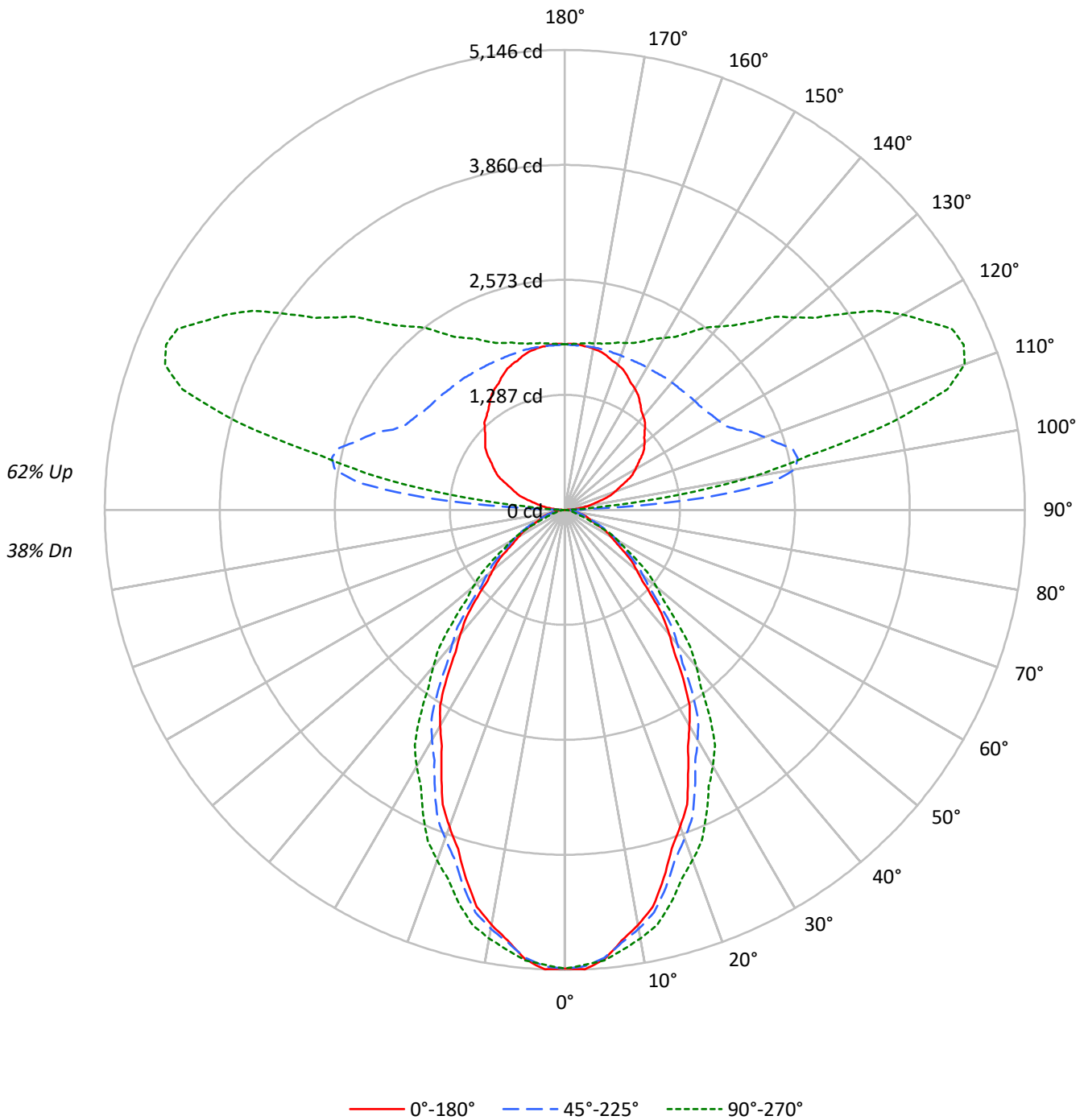
Lumens per Lamp: N/A  
Luminaire Lumens: 19533.0 lumens  
Efficiency: N/A  
Efficacy: 127.3 lumens/watt  
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: Semi-Indirect

Input Watts (W): 153.4  
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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	96	92	89	85	87	84	81	78	69	67	65	54	53	52	41	41	40	34
2	88	81	76	71	80	74	70	66	61	58	55	49	47	45	38	36	35	30
3	81	72	66	60	74	66	61	56	55	51	47	44	41	39	34	32	31	26
4	75	65	57	52	68	59	53	48	49	45	41	40	37	34	31	29	27	24
5	69	58	51	45	62	53	47	42	45	40	36	36	33	30	29	26	25	21
6	64	52	45	40	58	48	42	37	40	36	32	33	30	27	26	24	22	19
7	59	48	40	35	54	44	37	33	37	32	29	30	27	24	24	22	20	17
8	55	43	36	31	50	40	34	29	34	29	26	28	24	22	23	20	18	16
9	51	40	33	28	47	37	31	26	31	26	23	26	22	20	21	19	17	15
10	48	37	30	25	44	34	28	24	29	24	21	24	21	18	20	17	15	13

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

	0°	45°	90°
0°	15787	15787	15787
5°	15590	15535	15625
10°	14729	14863	15208
15°	13597	13913	14537
20°	12348	12812	13660
25°	11075	11679	12726
30°	9902	10551	11758
35°	8659	9285	10613
40°	7289	7867	9188
45°	6015	6534	7671
50°	5022	5474	6391
55°	4263	4698	5278
60°	3644	4073	4211
65°	2901	3426	2721
70°	2573	2673	1661
75°	2382	2167	1017
80°	2194	1994	878
85°	1987	1828	716



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	470.9	2.4
10°-20°	1224.7	6.3
20°-30°	1586.3	8.1
30°-40°	1553.4	8.0
40°-50°	1189.1	6.1
50°-60°	792.3	4.1
60°-70°	432.4	2.2
70°-80°	180.2	0.9
80°-90°	54.9	0.3
90°-100°	868.4	4.4
100°-110°	2397.4	12.3
110°-120°	2472.6	12.7
120°-130°	1986.9	10.2
130°-140°	1561.5	8.0
140°-150°	1197.6	6.1
150°-160°	860.7	4.4
160°-170°	526.4	2.7
170°-180°	177.5	0.9
0°-30°	3281.9	16.8
0°-40°	4835.3	24.8
0°-60°	6816.7	34.9
0°-90°	7484.1	38.3
90°-120°	5738.4	29.4
90°-150°	10484.4	53.7
90°-180°	12049.0	61.7
0°-180°	19533.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5133	5133	5133	5133	5133	
5°	5050	4999	5032	5044	5061	470
15°	4271	4255	4370	4489	4566	1193
25°	3264	3273	3442	3592	3750	1501
35°	2306	2318	2473	2640	2827	1434
45°	1383	1409	1502	1616	1764	1079
55°	795	828	876	909	984	721
65°	399	432	471	411	374	414
75°	200	200	182	125	86	214
85°	56	56	52	34	20	61
90°	6	12	24	27	30	12
95°	128	470	1576	648	421	137
105°	427	659	2638	4027	3792	455
115°	766	925	2124	4206	4783	752
125°	1050	1195	1926	3259	3824	935
135°	1264	1400	1872	2639	2976	978
145°	1466	1567	1848	2247	2418	918
155°	1653	1708	1834	2016	2080	762
165°	1789	1812	1842	1914	1929	504
175°	1854	1857	1846	1872	1866	176
180°	1854	1854	1854	1854	1854	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5133.3	5133.3	5133.3	5133.3	5133.3
2.5°	5146.0	5100.1	5111.7	5111.4	5097.3
5°	5050.0	4999.3	5032.0	5043.6	5061.3
7.5°	4862.6	4824.3	4883.8	4927.8	4963.5
10°	4716.6	4683.6	4759.4	4823.6	4869.8
12.5°	4547.3	4519.5	4613.5	4699.5	4759.9
15°	4270.7	4255.2	4369.8	4488.6	4565.7
17.5°	3974.7	3967.2	4098.6	4237.3	4336.0
20°	3772.9	3770.7	3914.8	4059.3	4173.8
22.5°	3569.2	3574.1	3725.6	3875.8	4006.2
25°	3263.8	3272.6	3441.8	3591.8	3750.3
27.5°	2981.3	2985.3	3160.2	3318.6	3487.7
30°	2788.5	2799.6	2971.0	3134.9	3311.1
32.5°	2595.7	2608.5	2776.4	2945.8	3125.5
35°	2306.5	2317.5	2473.2	2639.6	2826.8
37.5°	2008.3	2023.3	2161.5	2318.8	2502.9
40°	1815.5	1837.5	1959.6	2107.9	2288.5
42.5°	1629.9	1657.2	1770.4	1911.1	2074.1
45°	1383.0	1409.4	1502.4	1616.1	1763.7
47.5°	1170.4	1200.8	1272.2	1370.1	1496.1
50°	1049.6	1078.3	1144.2	1216.8	1335.7
52.5°	943.3	972.0	1030.7	1086.6	1187.9
55°	795.1	828.2	876.2	909.4	984.3
57.5°	673.5	705.2	743.3	758.3	803.7
60°	592.4	627.6	662.2	660.5	684.7
62.5°	518.5	548.5	582.9	559.1	560.4
65°	398.7	431.7	470.8	411.3	373.9
67.5°	322.1	329.1	369.4	286.9	242.4
70°	286.1	286.1	297.3	222.1	184.7
72.5°	251.8	251.8	241.5	180.7	141.5
75°	200.5	200.5	182.4	125.2	85.6
77.5°	154.5	152.8	139.7	93.4	62.2
80°	123.9	123.9	112.6	73.8	49.6
82.5°	96.9	96.9	87.4	57.6	36.9
85°	56.3	56.3	51.8	33.5	20.3
87.5°	21.0	22.2	22.8	16.1	14.9
90°	5.9	11.7	23.7	26.8	29.7
92.5°	53.4	221.7	396.4	144.7	112.7
95°	127.6	469.9	1575.5	647.6	421.3
97.5°	211.3	526.3	2333.9	1796.9	1301.3
100°	273.0	560.2	2614.0	2632.4	2139.2
102.5°	332.3	598.6	2668.6	3252.5	2784.9
105°	427.3	659.3	2637.7	4026.9	3791.9
107.5°	528.1	734.7	2490.5	4400.3	4486.2
110°	599.3	785.0	2376.6	4480.6	4759.1

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	663.4	842.1	2269.8	4417.2	4828.0
115°	765.5	925.1	2124.4	4205.6	4782.9
117.5°	854.5	1013.5	2028.9	3907.7	4564.5
120°	913.9	1070.5	1990.9	3706.0	4367.5
122.5°	970.8	1120.5	1960.0	3517.7	4144.4
125°	1050.3	1195.4	1925.6	3258.8	3824.5
127.5°	1118.0	1263.0	1905.4	3039.9	3527.8
130°	1163.1	1308.1	1895.9	2905.9	3349.8
132.5°	1205.8	1343.9	1886.4	2793.4	3195.5
135°	1264.0	1400.3	1872.2	2639.4	2975.9
137.5°	1329.2	1453.4	1865.1	2510.1	2797.3
140°	1364.8	1486.7	1860.3	2423.9	2676.3
142.5°	1405.2	1517.8	1855.6	2347.2	2569.5
145°	1465.7	1567.3	1848.5	2247.0	2418.1
147.5°	1523.9	1612.6	1841.9	2162.4	2295.3
150°	1566.6	1639.1	1839.6	2112.0	2219.4
152.5°	1599.8	1667.7	1837.2	2068.9	2157.6
155°	1652.6	1707.8	1833.6	2016.1	2079.9
157.5°	1701.3	1743.7	1834.2	1977.6	2021.2
160°	1729.8	1767.5	1836.6	1956.0	1987.9
162.5°	1753.5	1786.6	1839.0	1936.9	1961.8
165°	1789.1	1812.3	1842.5	1914.1	1928.6
167.5°	1816.4	1830.4	1845.5	1900.2	1904.8
170°	1830.7	1842.3	1845.5	1893.0	1893.0
172.5°	1842.5	1849.5	1845.5	1883.4	1881.1
175°	1854.4	1857.3	1845.5	1872.1	1866.3
177.5°	1859.2	1856.8	1844.9	1861.4	1856.8
180°	1854.4	1854.4	1854.4	1854.4	1854.4

(END OF REPORT)