

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: P563301

Luminaire Tested: **SQ4-PP3-050U-075D-835-1D-UNV-STD-W-12**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P563301  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-21, G2-2103-172-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 7/30/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: CORELITE  
Catalog Number: SQ4-PP3-050U-075D-835-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.  
DOWNLIGHT 750 LUMENS PER FOOT  
UPLIGHT 500 LUMENS PER FOOT  
Light Source: 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

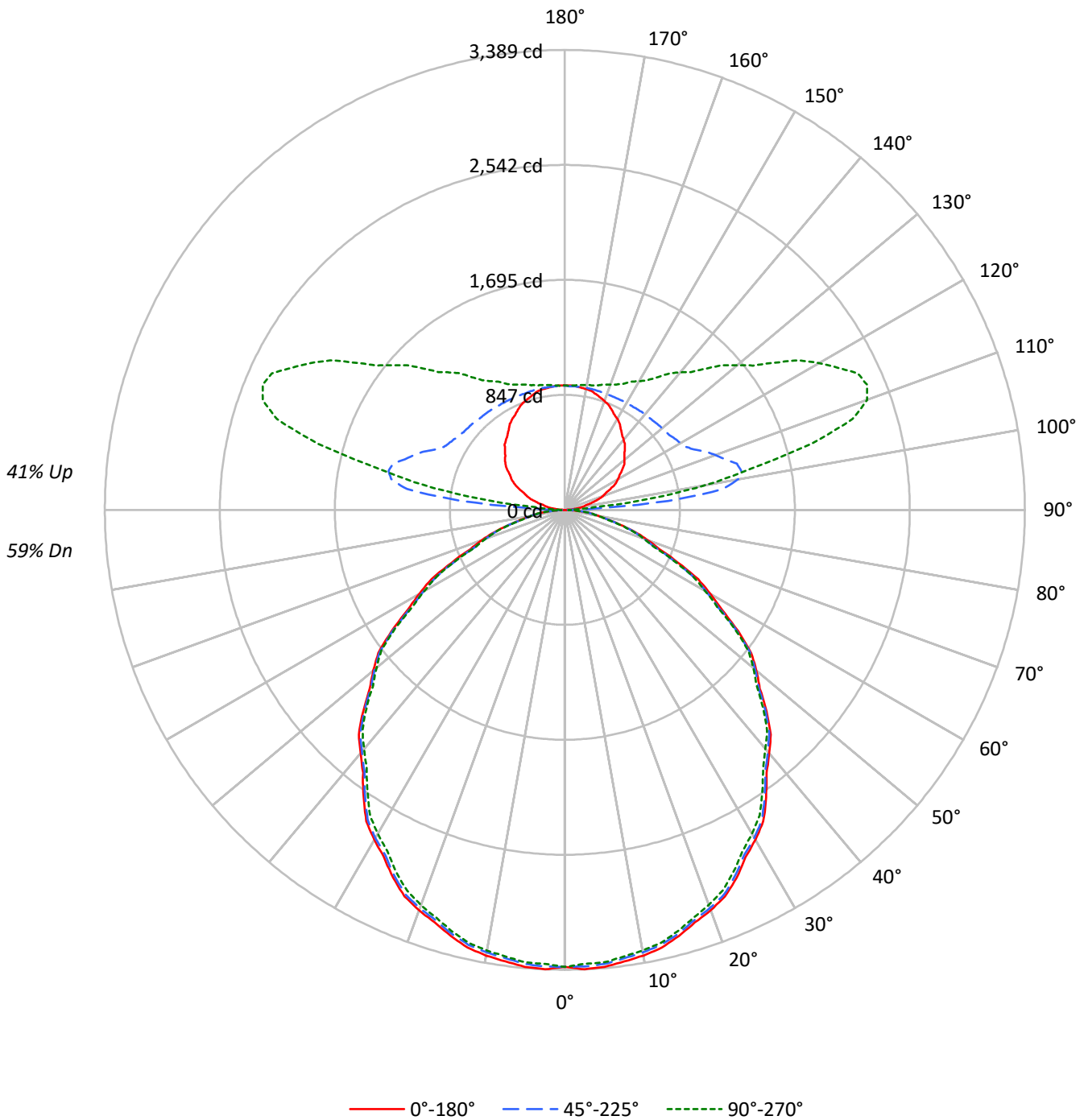
Lumens per Lamp: N/A  
Luminaire Lumens: 14598.6 lumens  
Efficiency: N/A  
Efficacy: 138.2 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33  
Luminous Opening: Rectangular (W 0.29' x L: 12' x H: 0')  
CIE Type: General Diffuse

Input Watts (W): 105.6  
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	109	109	109	109	102	102	102	102	88	88	88	76	76	76	64	64	64	59
1	100	96	92	88	93	90	86	83	78	75	73	67	65	64	57	56	55	50
2	91	84	78	73	85	79	73	69	69	64	61	59	56	54	51	49	47	42
3	83	74	67	61	78	69	63	58	61	56	51	53	49	46	45	42	40	36
4	76	66	58	52	71	62	54	49	54	48	44	47	43	39	40	37	34	31
5	70	58	50	44	65	55	48	42	48	43	38	42	38	34	36	33	30	27
6	65	53	44	38	60	49	42	37	44	38	33	38	33	30	33	29	27	24
7	60	47	39	34	56	45	37	32	40	34	29	35	30	26	30	26	24	21
8	56	43	35	30	52	41	34	29	36	30	26	32	27	24	28	24	21	19
9	52	39	32	27	48	37	30	26	33	27	23	29	25	21	26	22	19	17
10	48	36	29	24	45	34	28	23	31	25	21	27	22	19	24	20	17	15

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

	0°	45°	90°
0°	10357	10357	10357
5°	10433	10369	10333
10°	10415	10342	10295
15°	10346	10290	10234
20°	10278	10220	10143
25°	10156	10085	9985
30°	9968	9915	9790
35°	9707	9640	9518
40°	9396	9337	9230
45°	9140	9076	8986
50°	8812	8755	8670
55°	8356	8245	8182
60°	7607	7389	7353
65°	6701	6422	6400
70°	5785	5547	5547
75°	4980	4910	4840
80°	4390	4444	4339
85°	3437	3751	3751



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.4	2.2
10°-20°	909.3	6.2
20°-30°	1361.9	9.3
30°-40°	1597.5	10.9
40°-50°	1602.5	11.0
50°-60°	1367.1	9.4
60°-70°	891.6	6.1
70°-80°	447.3	3.1
80°-90°	127.3	0.9
90°-100°	439.4	3.0
100°-110°	1193.5	8.2
110°-120°	1227.1	8.4
120°-130°	981.1	6.7
130°-140°	770.9	5.3
140°-150°	591.1	4.0
150°-160°	425.1	2.9
160°-170°	260.0	1.8
170°-180°	87.6	0.6
0°-30°	2589.7	17.7
0°-40°	4187.1	28.7
0°-60°	7156.7	49.0
0°-90°	8622.9	59.1
90°-120°	2860.0	19.6
90°-150°	5203.1	35.6
90°-180°	5976.0	40.9
0°-180°	14598.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3368	3368	3368	3368	3368	
5°	3380	3348	3359	3347	3347	321
15°	3250	3218	3232	3220	3214	917
25°	2993	2958	2972	2946	2943	1376
35°	2586	2560	2568	2538	2535	1615
45°	2102	2087	2087	2066	2066	1618
55°	1558	1553	1538	1529	1526	1385
65°	921	904	882	877	880	919
75°	419	419	413	410	407	455
85°	97	106	106	106	106	114
90°	3	12	21	26	26	8
95°	65	240	765	333	224	69
105°	212	330	1312	1998	1880	225
115°	377	457	1051	2090	2381	372
125°	518	590	950	1602	1889	462
135°	624	693	924	1304	1471	482
145°	721	773	912	1108	1192	453
155°	815	844	906	995	1024	376
165°	883	894	909	948	950	249
175°	915	918	912	924	921	87
180°	915	915	915	915	915	

TEST NUMBER: P563301

CATALOG NUMBER: SQ4-PP3-050U-075D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3367.6	3367.6	3367.6	3367.6	3367.6
2.5°	3388.9	3361.2	3367.6	3362.6	3348.8
5°	3379.5	3347.7	3358.8	3347.0	3347.0
7.5°	3356.4	3321.8	3332.8	3321.0	3320.4
10°	3335.2	3300.5	3311.6	3299.7	3296.8
12.5°	3304.5	3269.9	3283.2	3269.1	3268.5
15°	3249.6	3217.8	3231.9	3219.9	3214.2
17.5°	3187.6	3153.0	3169.9	3153.3	3151.0
20°	3140.4	3105.8	3122.7	3099.1	3099.1
22.5°	3083.7	3049.1	3068.4	3037.7	3037.7
25°	2992.8	2958.2	2972.1	2945.5	2942.6
27.5°	2884.8	2850.7	2865.3	2835.2	2834.6
30°	2806.9	2775.1	2792.1	2759.6	2756.7
32.5°	2721.9	2692.4	2704.7	2672.2	2669.3
35°	2585.5	2559.5	2567.8	2538.2	2535.3
37.5°	2442.1	2415.5	2424.9	2399.5	2398.4
40°	2340.5	2323.2	2325.8	2305.0	2299.2
42.5°	2246.1	2226.5	2229.0	2208.3	2207.1
45°	2101.5	2087.0	2086.7	2066.0	2066.0
47.5°	1948.0	1937.0	1933.8	1916.7	1916.1
50°	1841.7	1833.1	1829.9	1815.1	1812.2
52.5°	1730.8	1726.7	1716.6	1704.2	1703.6
55°	1558.4	1552.6	1537.7	1528.8	1525.9
57.5°	1371.3	1359.7	1342.9	1330.0	1332.3
60°	1236.7	1225.1	1201.3	1195.4	1195.4
62.5°	1106.8	1093.0	1069.0	1060.9	1065.5
65°	920.9	903.5	882.5	876.7	879.5
67.5°	752.0	736.5	713.7	713.6	711.3
70°	643.4	634.8	616.9	616.9	616.9
72.5°	546.6	542.6	529.5	529.4	527.1
75°	419.1	419.1	413.2	410.2	407.3
77.5°	314.0	315.2	312.3	309.2	304.0
80°	247.9	253.7	250.9	247.9	245.0
82.5°	186.5	192.3	191.8	186.5	185.9
85°	97.4	106.1	106.3	106.3	106.3
87.5°	26.6	37.5	41.9	43.1	45.4
90°	2.9	11.6	20.6	26.5	26.5
92.5°	26.5	120.3	208.9	89.7	75.9
95°	64.7	240.3	765.1	333.0	223.7
97.5°	107.1	265.4	1173.0	912.6	641.0
100°	135.4	282.1	1297.8	1315.6	1062.4
102.5°	163.6	298.9	1330.8	1627.0	1403.7
105°	211.9	329.9	1312.5	1998.4	1880.5
107.5°	261.9	366.1	1236.6	2190.2	2223.0
110°	297.2	392.2	1180.1	2228.0	2369.0



TEST NUMBER: P563301

CATALOG NUMBER: SQ4-PP3-050U-075D-835-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	327.8	418.2	1123.6	2196.7	2409.0
115°	376.7	457.3	1050.6	2090.1	2380.8
117.5°	422.6	499.7	1004.1	1939.1	2266.6
120°	453.2	528.0	982.9	1837.8	2163.0
122.5°	479.1	553.9	968.8	1736.3	2050.0
125°	517.9	589.9	950.5	1601.6	1889.3
127.5°	552.7	624.0	940.5	1499.4	1746.3
130°	573.9	642.9	935.8	1435.3	1656.8
132.5°	595.0	664.1	931.1	1380.5	1576.8
135°	623.9	692.9	924.1	1304.5	1471.4
137.5°	655.1	717.8	920.5	1237.4	1377.8
140°	673.9	734.3	918.2	1194.7	1321.3
142.5°	692.7	748.6	915.8	1161.3	1267.2
145°	721.0	772.8	912.3	1108.4	1191.8
147.5°	752.8	797.1	909.3	1066.8	1132.4
150°	774.0	811.4	909.3	1042.9	1094.7
152.5°	790.4	823.2	907.0	1021.5	1064.1
155°	815.2	843.9	906.4	995.3	1024.1
157.5°	839.3	861.7	906.4	977.5	999.4
160°	853.4	873.6	906.4	965.6	982.9
162.5°	867.5	883.1	908.7	956.1	968.8
165°	882.9	894.4	909.3	947.7	950.5
167.5°	898.7	904.5	912.3	937.6	939.9
170°	903.5	909.2	912.3	932.9	932.9
172.5°	908.2	911.6	912.3	928.2	928.2
175°	915.2	918.1	912.3	924.0	921.1
177.5°	917.6	917.6	910.5	919.8	915.2
180°	915.2	915.2	915.2	915.2	915.2

(END OF REPORT)