

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: P562185

Luminaire Tested: **SQ4-PW1-025U-125D-92765-1D-UNV-STD-W-4 (5000K)**

Issue Date: 7/30/2021

**Test Information**

Test Method: LM-79-2019  
Report Number: P562185  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-PW1-025U-125D-92765-1D-UNV-STD-W-4 (5000K)  
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS  
DOWNLIGHT 1250 LUMENS PER FOOT  
UPLIGHT 250 LUMENS PER FOOT  
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

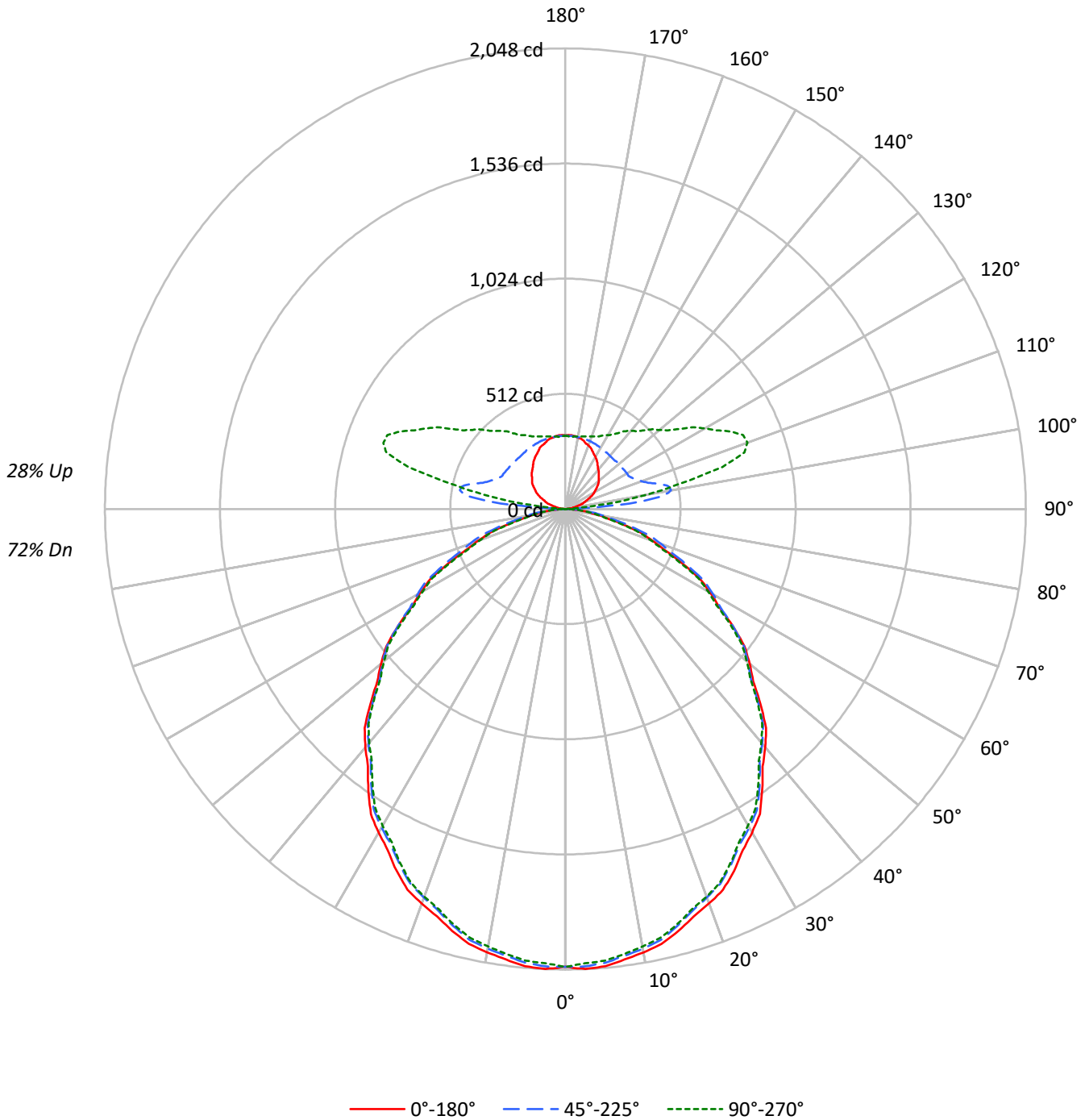
Lumens per Lamp: N/A  
Luminaire Lumens: 7206.4 lumens  
Efficiency: N/A  
Efficacy: 103.4 lumens/watt  
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31  
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')  
CIE Type: Semi-Direct

Input Watts (W): 69.7  
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	50	30	10	0	
RCR																						
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	72	
1	103	98	94	91	97	93	90	87	84	81	79	76	74	72	68	66	65	65	65	65	61	
2	94	86	80	75	89	82	76	71	74	69	66	67	63	60	60	57	55	55	55	55	51	
3	86	76	68	62	81	72	65	60	65	60	55	59	55	51	53	50	47	47	47	47	43	
4	78	67	59	53	74	64	57	51	58	52	47	53	48	44	47	44	40	47	44	40	37	
5	72	60	52	45	68	57	50	44	52	46	41	47	42	38	43	39	35	43	39	35	32	
6	67	54	46	40	63	52	44	38	47	41	36	43	37	33	39	34	31	39	34	31	29	
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	35	31	28	35	31	28	25	
8	57	45	37	31	54	43	35	30	39	33	28	36	30	27	33	28	25	33	28	25	23	
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	22	30	26	22	20	
10	50	38	30	25	47	36	29	24	33	27	23	31	25	22	28	24	20	28	24	20	19	

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

	0°	45°	90°
0°	18785	18785	18785
5°	18906	18757	18674
10°	18756	18604	18504
15°	18557	18351	18283
20°	18335	18053	18018
25°	18079	17750	17696
30°	17697	17429	17315
35°	17194	16952	16851
40°	16658	16399	16334
45°	16010	15800	15729
50°	15347	15217	15114
55°	14630	14630	14398
60°	13738	14002	13505
65°	12570	13197	12258
70°	11082	12147	10790
75°	9464	10872	9208
80°	7337	9149	7433
85°	4742	7029	6267



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	191.7	2.7
10°-20°	541.3	7.5
20°-30°	802.9	11.1
30°-40°	939.5	13.0
40°-50°	935.3	13.0
50°-60°	807.7	11.2
60°-70°	581.4	8.1
70°-80°	304.9	4.2
80°-90°	75.6	1.0
90°-100°	148.6	2.1
100°-110°	422.9	5.9
110°-120°	405.2	5.6
120°-130°	320.7	4.5
130°-140°	257.4	3.6
140°-150°	201.5	2.8
150°-160°	147.4	2.0
160°-170°	91.3	1.3
170°-180°	31.0	0.4
0°-30°	1535.9	21.3
0°-40°	2475.4	34.4
0°-60°	4218.4	58.5
0°-90°	5180.3	71.9
90°-120°	976.8	13.6
90°-150°	1756.4	24.4
90°-180°	2026.0	28.1
0°-180°	7206.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2036	2036	2036	2036	2036	
5°	2041	2019	2025	2020	2016	193
15°	1943	1918	1921	1918	1914	548
25°	1776	1746	1744	1733	1738	817
35°	1527	1506	1505	1491	1496	954
45°	1227	1216	1211	1207	1206	947
55°	910	908	910	897	895	811
65°	576	593	604	581	562	571
75°	266	290	305	285	258	285
85°	45	59	66	63	59	59
90°	0	0	0	0	0	2
95°	16	64	288	100	61	18
105°	66	100	431	761	724	70
115°	122	148	327	692	813	120
125°	172	191	312	518	619	154
135°	211	228	308	437	494	163
145°	249	261	311	378	412	155
155°	284	291	318	342	356	131
165°	314	315	322	329	334	88
175°	329	327	326	324	321	31
180°	326	326	326	326	326	

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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2036.0	2036.0	2036.0	2036.0	2036.0
2.5°	2047.5	2030.7	2036.0	2031.5	2021.7
5°	2041.4	2018.6	2025.3	2019.8	2016.3
7.5°	2020.6	1999.6	2004.5	1998.7	1996.6
10°	2002.0	1980.9	1985.8	1978.6	1975.1
12.5°	1980.4	1958.0	1962.9	1955.6	1953.5
15°	1942.8	1918.2	1921.2	1917.6	1914.1
17.5°	1899.0	1874.1	1874.6	1868.8	1868.1
20°	1867.4	1841.1	1838.7	1831.6	1835.1
22.5°	1833.0	1805.3	1802.8	1792.9	1797.8
25°	1775.9	1746.1	1743.6	1733.0	1738.3
27.5°	1709.9	1680.5	1680.5	1665.6	1671.2
30°	1661.1	1633.1	1636.0	1618.2	1625.3
32.5°	1609.5	1584.2	1585.8	1568.0	1575.0
35°	1526.6	1505.5	1505.1	1490.8	1496.1
37.5°	1441.9	1423.3	1420.4	1412.2	1413.6
40°	1383.1	1367.3	1361.6	1356.2	1356.2
42.5°	1321.4	1307.0	1301.3	1297.3	1295.9
45°	1227.0	1216.5	1210.9	1207.2	1205.5
47.5°	1133.7	1123.9	1119.0	1116.5	1114.7
50°	1069.2	1062.1	1060.2	1054.8	1053.0
52.5°	1004.6	1000.4	998.5	991.6	989.9
55°	909.5	907.7	909.5	896.9	895.1
57.5°	810.5	813.3	819.1	802.1	797.9
60°	744.5	751.5	758.8	738.9	731.9
62.5°	677.0	688.2	698.5	675.7	665.9
65°	575.8	593.4	604.5	580.8	561.5
67.5°	478.2	500.0	513.4	487.8	466.0
70°	410.8	435.4	450.3	424.6	400.0
72.5°	352.0	379.3	391.4	367.2	342.6
75°	265.5	290.0	305.0	284.6	258.3
77.5°	188.4	211.5	223.9	206.2	184.4
80°	138.1	162.7	172.2	157.5	139.9
82.5°	97.9	118.3	124.9	116.0	104.0
85°	44.8	58.9	66.4	62.7	59.2
87.5°	11.5	21.3	27.3	27.3	28.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.0	26.3	61.0	17.8	13.4
95°	16.1	64.0	287.7	99.6	61.4
97.5°	29.6	75.0	443.1	317.1	217.3
100°	39.1	81.5	476.9	483.0	372.1
102.5°	49.5	88.5	469.4	618.3	521.4
105°	65.7	99.7	431.0	761.3	723.7
107.5°	82.2	112.7	386.1	801.6	835.1
110°	93.6	122.1	360.3	786.2	861.3

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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	104.6	131.6	342.9	749.7	856.9
115°	122.2	147.6	326.8	692.3	813.0
117.5°	137.7	161.6	317.3	629.6	757.4
120°	150.1	170.1	316.3	593.8	716.2
122.5°	160.0	180.0	313.8	562.3	676.1
125°	172.4	191.2	311.9	517.6	618.9
127.5°	185.9	203.5	310.9	490.9	574.4
130°	192.9	210.4	309.4	472.3	545.1
132.5°	200.3	217.4	309.4	457.8	524.7
135°	210.8	228.4	308.2	437.2	494.2
137.5°	220.8	237.9	308.1	419.8	469.1
140°	228.2	245.8	307.6	405.4	452.7
142.5°	236.6	251.3	309.1	393.9	436.3
145°	248.7	261.4	310.7	378.4	412.4
147.5°	259.0	271.3	313.4	362.8	392.2
150°	267.9	276.4	314.4	357.7	378.3
152.5°	274.8	283.8	315.4	350.7	369.8
155°	284.0	290.7	318.1	342.0	355.9
157.5°	295.4	299.4	318.7	338.1	348.0
160°	301.4	304.4	321.2	335.1	343.5
162.5°	304.9	308.4	321.7	332.5	339.1
165°	313.8	315.0	321.8	328.8	333.6
167.5°	319.9	318.8	324.7	327.8	329.8
170°	321.8	321.2	323.7	324.4	326.8
172.5°	326.3	324.2	325.2	323.4	325.3
175°	328.7	326.8	325.6	323.6	321.2
177.5°	329.7	326.7	325.2	323.2	323.7
180°	326.2	326.2	326.2	326.2	326.2

(END OF REPORT)