

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: P564602

Luminaire Tested: **SQ4-PW1-025U-125D-840-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564602
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, 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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

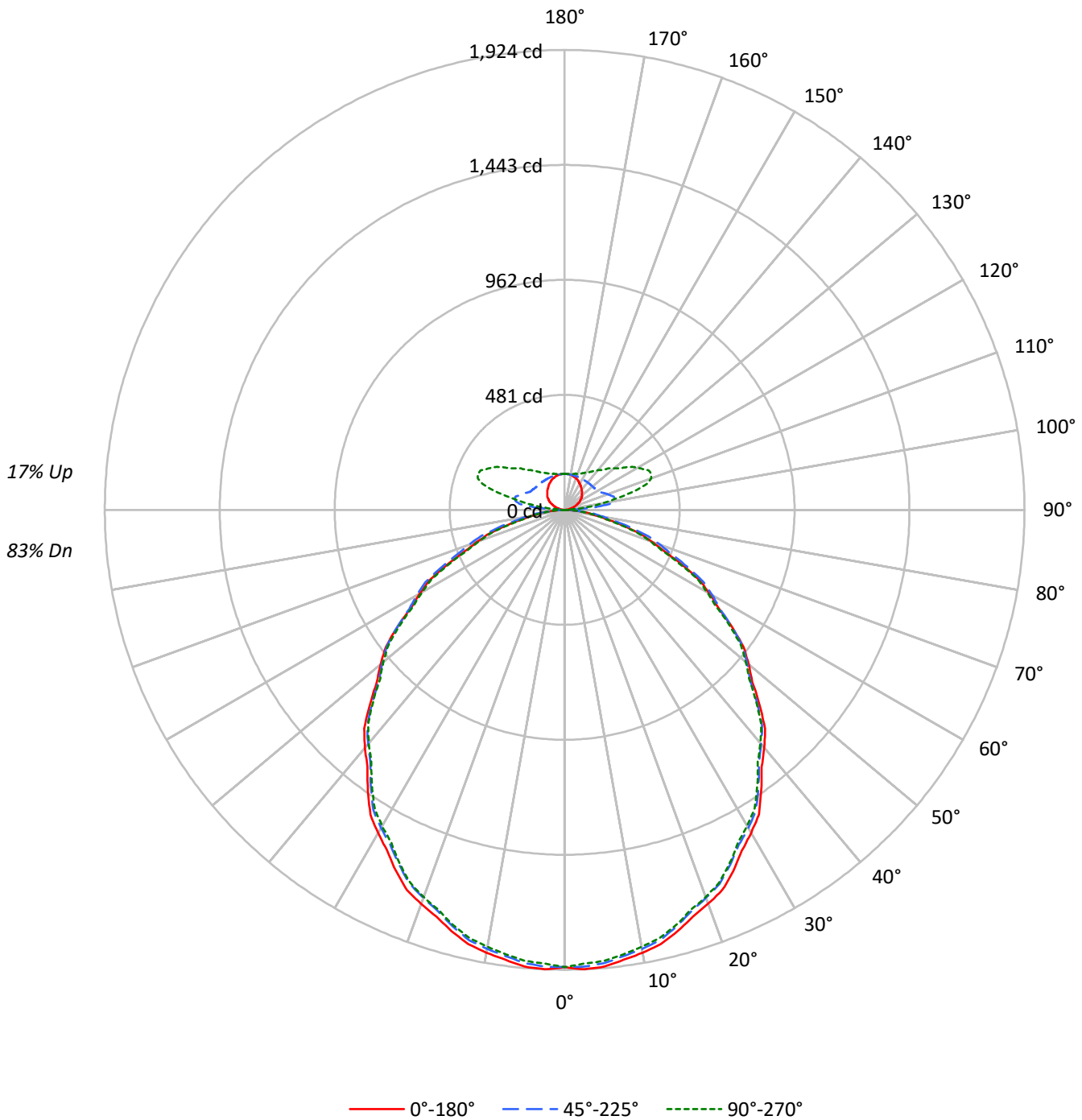
Lumens per Lamp: N/A
Luminaire Lumens: 5843.4 lumens
Efficiency: N/A
Efficacy: 118.0 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 49.5
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	115	115	115	115	110	110	110	110	102	102	102	94	94	94	87	87	87	83
1	105	101	97	93	101	97	93	90	90	87	84	83	81	79	77	75	74	71
2	96	88	82	77	92	85	79	74	79	74	70	73	69	66	68	65	62	59
3	88	78	70	64	84	75	68	62	70	64	59	65	60	56	60	56	53	50
4	81	69	61	54	77	67	59	53	62	56	51	58	53	48	54	50	46	43
5	74	62	53	47	71	60	52	46	56	49	44	52	46	42	49	44	40	38
6	68	56	47	41	65	54	46	40	50	44	39	47	41	37	44	39	35	33
7	63	51	42	36	61	49	41	36	46	39	34	43	37	33	40	35	31	29
8	59	46	38	32	57	45	37	32	42	35	31	40	34	29	37	32	28	26
9	55	42	34	29	53	41	34	29	39	32	28	36	31	27	34	29	26	24
10	52	39	31	26	50	38	31	26	36	29	25	34	28	24	32	27	23	21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17649	17649	17649
5°	17763	17623	17545
10°	17621	17479	17384
15°	17435	17241	17177
20°	17226	16961	16928
25°	16985	16677	16625
30°	16627	16375	16267
35°	16154	15926	15831
40°	15650	15407	15345
45°	15042	14843	14778
50°	14418	14297	14200
55°	13745	13745	13528
60°	12906	13155	12688
65°	11811	12400	11516
70°	10410	11411	10137
75°	8890	10213	8652
80°	6896	8597	6987
85°	4457	6606	5886



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.1	3.1
10°-20°	508.6	8.7
20°-30°	754.4	12.9
30°-40°	882.7	15.1
40°-50°	878.7	15.0
50°-60°	758.8	13.0
60°-70°	546.2	9.3
70°-80°	286.4	4.9
80°-90°	71.8	1.2
90°-100°	73.4	1.3
100°-110°	192.9	3.3
110°-120°	200.0	3.4
120°-130°	160.4	2.7
130°-140°	125.9	2.2
140°-150°	96.6	1.7
150°-160°	69.6	1.2
160°-170°	42.6	0.7
170°-180°	14.4	0.2
0°-30°	1443.0	24.7
0°-40°	2325.7	39.8
0°-60°	3963.3	67.8
0°-90°	4867.7	83.3
90°-120°	466.2	8.0
90°-150°	849.1	14.5
90°-180°	976.0	16.7
0°-180°	5843.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1913	1913	1913	1913	1913	
5°	1918	1896	1903	1898	1894	182
15°	1825	1802	1805	1802	1798	514
25°	1668	1640	1638	1628	1633	767
35°	1434	1414	1414	1401	1406	897
45°	1153	1143	1138	1134	1133	889
55°	854	853	854	843	841	762
65°	541	558	568	546	528	536
75°	249	272	286	267	243	267
85°	42	55	62	59	56	56
90°	1	3	8	4	4	2
95°	10	38	126	65	44	11
105°	35	53	213	324	302	37
115°	62	75	171	341	389	61
125°	86	96	155	263	310	76
135°	102	113	150	212	240	79
145°	119	126	149	181	195	74
155°	134	138	149	163	168	62
165°	145	147	149	154	156	41
175°	150	150	150	152	152	14
180°	150	150	150	150	150	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1912.9	1912.9	1912.9	1912.9	1912.9
2.5°	1923.7	1907.9	1912.9	1908.6	1899.4
5°	1918.0	1896.5	1902.8	1897.7	1894.4
7.5°	1898.4	1878.6	1883.2	1877.8	1875.8
10°	1880.9	1861.1	1865.7	1858.9	1855.6
12.5°	1860.6	1839.6	1844.1	1837.3	1835.4
15°	1825.3	1802.2	1805.0	1801.6	1798.3
17.5°	1784.1	1760.7	1761.2	1755.8	1755.1
20°	1754.5	1729.8	1727.5	1720.8	1724.1
22.5°	1722.1	1696.1	1693.8	1684.5	1689.1
25°	1668.5	1640.5	1638.2	1628.2	1633.1
27.5°	1606.5	1578.8	1578.9	1564.8	1570.1
30°	1560.7	1534.3	1537.1	1520.4	1526.9
32.5°	1512.1	1488.4	1489.9	1473.2	1479.8
35°	1434.2	1414.5	1414.0	1400.7	1405.6
37.5°	1354.7	1337.2	1334.5	1326.8	1328.1
40°	1299.4	1284.6	1279.2	1274.1	1274.1
42.5°	1241.4	1227.9	1222.6	1218.8	1217.5
45°	1152.8	1142.9	1137.6	1134.2	1132.6
47.5°	1065.2	1055.9	1051.3	1048.9	1047.3
50°	1004.5	997.9	996.1	991.0	989.3
52.5°	943.8	939.9	938.1	931.6	930.0
55°	854.5	852.8	854.5	842.6	841.0
57.5°	761.5	764.1	769.5	753.6	749.7
60°	699.4	706.0	712.9	694.2	687.6
62.5°	636.1	646.6	656.3	634.8	625.6
65°	541.0	557.5	568.0	545.6	527.5
67.5°	449.3	469.8	482.4	458.3	437.9
70°	385.9	409.0	423.0	398.9	375.8
72.5°	330.7	356.4	367.7	345.0	321.9
75°	249.4	272.5	286.5	267.4	242.7
77.5°	177.0	198.7	210.3	193.7	173.3
80°	129.8	152.8	161.8	147.9	131.5
82.5°	92.0	111.1	117.3	109.0	97.8
85°	42.1	55.3	62.4	58.9	55.6
87.5°	11.0	20.6	27.2	26.4	27.7
90°	1.0	2.9	7.7	3.9	3.9
92.5°	4.1	19.5	43.2	19.1	12.4
95°	9.6	38.0	126.4	65.1	44.4
97.5°	16.8	41.7	189.1	150.4	110.8
100°	22.2	44.8	208.4	211.2	164.0
102.5°	26.8	48.0	213.8	263.1	222.7
105°	34.7	52.7	213.2	323.7	302.0
107.5°	42.8	59.4	201.1	355.2	360.5
110°	48.2	63.3	191.1	363.3	386.0

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	53.6	68.0	181.8	358.2	392.9
115°	61.8	75.0	170.8	340.7	388.9
117.5°	69.7	81.7	163.3	316.5	369.9
120°	74.3	85.6	160.2	300.3	352.2
122.5°	78.9	90.3	157.9	284.1	335.2
125°	85.9	96.3	155.3	262.6	309.7
127.5°	91.5	102.0	153.2	245.2	285.0
130°	94.6	105.9	152.5	234.3	271.1
132.5°	97.6	109.0	151.7	225.0	258.0
135°	102.3	112.7	150.5	212.0	240.3
137.5°	107.1	117.3	150.3	202.2	225.4
140°	111.0	120.4	149.6	194.4	216.1
142.5°	114.1	122.7	149.6	189.0	207.6
145°	118.7	126.2	148.6	180.8	194.9
147.5°	123.3	130.7	148.6	173.9	185.6
150°	126.4	133.0	148.6	170.0	179.5
152.5°	129.5	134.6	148.6	166.9	174.1
155°	134.1	137.9	148.6	163.2	167.9
157.5°	137.6	141.2	148.6	159.9	163.3
160°	139.9	142.7	148.6	158.3	160.2
162.5°	142.2	144.3	148.6	156.7	158.6
165°	144.7	146.6	148.6	154.4	156.3
167.5°	147.1	148.0	149.6	153.4	154.2
170°	148.6	149.5	149.6	153.4	153.4
172.5°	149.4	149.6	149.6	152.6	151.9
175°	150.5	150.5	149.6	151.5	151.5
177.5°	150.5	150.5	149.8	151.3	150.5
180°	150.5	150.5	150.5	150.5	150.5

(END OF REPORT)