

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: P562232

Luminaire Tested: **SQ4-PW1-050U-125D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562232
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-PW1-050U-125D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

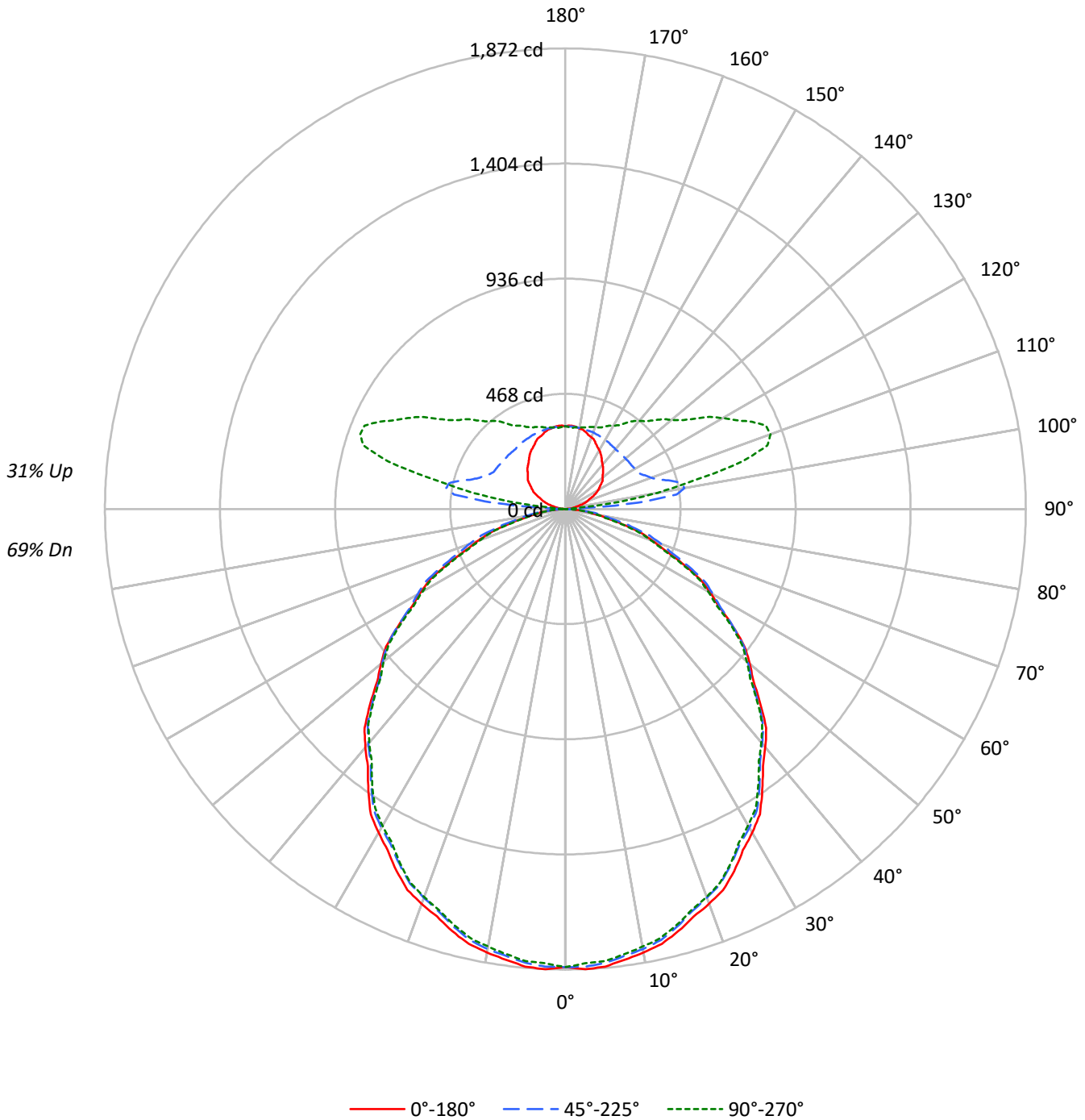
Lumens per Lamp: N/A
Luminaire Lumens: 6825.7 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 71.4
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	69
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	64	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	55	53	49
3	85	75	68	62	80	72	65	59	64	59	55	58	53	50	51	48	45	42
4	78	67	59	53	73	64	56	51	57	51	47	51	47	43	46	42	39	36
5	72	60	51	45	68	57	49	44	51	45	40	46	41	37	41	37	34	31
6	66	54	45	39	62	51	44	38	46	40	35	42	37	33	38	33	30	28
7	61	49	40	35	58	46	39	34	42	36	31	38	33	29	34	30	27	24
8	57	44	36	31	54	42	35	30	39	32	28	35	30	26	32	27	24	22
9	53	41	33	28	50	39	32	27	35	29	25	32	27	23	29	25	22	20
10	50	37	30	25	47	36	29	24	33	27	23	30	25	21	27	23	20	18

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17179	17179	17179
5°	17290	17154	17078
10°	17152	17014	16921
15°	16970	16782	16719
20°	16768	16510	16478
25°	16533	16233	16183
30°	16184	15940	15834
35°	15724	15503	15410
40°	15233	14997	14937
45°	14641	14449	14384
50°	14035	13917	13822
55°	13378	13378	13168
60°	12562	12804	12350
65°	11496	12070	11210
70°	10135	11109	9868
75°	8655	9942	8420
80°	6711	8368	6801
85°	4340	6426	5727



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.3	2.6
10°-20°	495.0	7.3
20°-30°	734.3	10.8
30°-40°	859.2	12.6
40°-50°	855.3	12.5
50°-60°	738.6	10.8
60°-70°	531.7	7.8
70°-80°	278.8	4.1
80°-90°	69.1	1.0
90°-100°	153.2	2.2
100°-110°	435.9	6.4
110°-120°	417.6	6.1
120°-130°	330.5	4.8
130°-140°	265.3	3.9
140°-150°	207.7	3.0
150°-160°	152.0	2.2
160°-170°	94.1	1.4
170°-180°	31.9	0.5
0°-30°	1404.6	20.6
0°-40°	2263.8	33.2
0°-60°	3857.8	56.5
0°-90°	4737.4	69.4
90°-120°	1006.7	14.7
90°-150°	1810.2	26.5
90°-180°	2088.0	30.6
0°-180°	6825.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1862	1862	1862	1862	1862	
5°	1867	1846	1852	1847	1844	177
15°	1777	1754	1757	1754	1750	501
25°	1624	1597	1595	1585	1590	747
35°	1396	1377	1376	1363	1368	873
45°	1122	1112	1107	1104	1102	866
55°	832	830	832	820	819	742
65°	527	543	553	531	514	522
75°	243	265	279	260	236	260
85°	41	54	61	57	54	54
90°	0	0	0	0	0	2
95°	17	66	297	103	63	19
105°	68	103	444	785	746	72
115°	126	152	337	714	838	124
125°	178	197	322	534	638	159
135°	217	235	318	451	509	168
145°	256	269	320	390	425	160
155°	293	300	328	352	367	135
165°	323	325	332	339	344	91
175°	339	337	336	334	331	32
180°	336	336	336	336	336	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1862.0	1862.0	1862.0	1862.0	1862.0
2.5°	1872.5	1857.1	1862.0	1857.9	1848.9
5°	1866.9	1846.1	1852.2	1847.2	1844.0
7.5°	1847.9	1828.6	1833.1	1827.8	1825.9
10°	1830.8	1811.6	1816.1	1809.4	1806.2
12.5°	1811.1	1790.6	1795.1	1788.5	1786.5
15°	1776.7	1754.2	1757.0	1753.7	1750.4
17.5°	1736.7	1713.9	1714.4	1709.1	1708.4
20°	1707.8	1683.7	1681.5	1675.1	1678.3
22.5°	1676.3	1650.9	1648.7	1639.6	1644.1
25°	1624.1	1596.9	1594.6	1584.9	1589.7
27.5°	1563.8	1536.8	1536.8	1523.2	1528.3
30°	1519.1	1493.5	1496.2	1479.9	1486.3
32.5°	1471.9	1448.8	1450.2	1434.0	1440.4
35°	1396.1	1376.8	1376.4	1363.4	1368.2
37.5°	1318.7	1301.7	1299.0	1291.5	1292.7
40°	1264.8	1250.4	1245.2	1240.2	1240.2
42.5°	1208.4	1195.3	1190.0	1186.4	1185.1
45°	1122.1	1112.5	1107.4	1104.0	1102.4
47.5°	1036.8	1027.8	1023.4	1021.0	1019.4
50°	977.8	971.3	969.6	964.6	963.0
52.5°	918.7	914.8	913.1	906.8	905.2
55°	831.7	830.1	831.7	820.2	818.6
57.5°	741.2	743.8	749.1	733.6	729.7
60°	680.8	687.2	693.9	675.8	669.3
62.5°	619.1	629.4	638.8	617.9	609.0
65°	526.6	542.6	552.9	531.1	513.5
67.5°	437.4	457.3	469.5	446.1	426.2
70°	375.7	398.1	411.8	388.3	365.8
72.5°	321.9	346.9	358.0	335.8	313.3
75°	242.8	265.3	278.9	260.3	236.2
77.5°	172.3	193.4	204.7	188.5	168.6
80°	126.3	148.8	157.5	144.0	128.0
82.5°	89.6	108.2	114.2	106.1	95.2
85°	41.0	53.8	60.7	57.3	54.1
87.5°	10.5	19.5	24.9	25.0	26.2
90°	0.0	0.0	0.0	0.0	0.0
92.5°	5.1	27.1	62.9	18.3	13.8
95°	16.6	66.0	296.6	102.6	63.3
97.5°	30.6	77.3	456.7	326.8	224.0
100°	40.3	84.0	491.5	497.8	383.5
102.5°	51.0	91.2	483.8	637.3	537.4
105°	67.7	102.7	444.2	784.6	745.9
107.5°	84.8	116.1	397.9	826.2	860.7
110°	96.5	125.9	371.3	810.3	887.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	107.8	135.6	353.4	772.7	883.2
115°	125.9	152.2	336.8	713.6	837.9
117.5°	141.9	166.5	327.0	648.9	780.6
120°	154.7	175.3	326.0	612.0	738.2
122.5°	164.9	185.5	323.4	579.6	696.8
125°	177.7	197.1	321.5	533.5	637.9
127.5°	191.6	209.7	320.5	506.0	592.0
130°	198.8	216.9	318.9	486.8	561.8
132.5°	206.4	224.1	318.9	471.8	540.8
135°	217.3	235.4	317.7	450.7	509.4
137.5°	227.5	245.2	317.5	432.7	483.4
140°	235.2	253.3	317.0	417.8	466.6
142.5°	243.9	259.0	318.5	406.0	449.7
145°	256.3	269.4	320.2	390.0	425.0
147.5°	266.9	279.7	323.0	373.9	404.2
150°	276.1	284.9	324.0	368.6	389.9
152.5°	283.3	292.5	325.1	361.4	381.2
155°	292.7	299.6	327.9	352.5	366.9
157.5°	304.5	308.6	328.5	348.4	358.7
160°	310.6	313.7	331.1	345.3	354.1
162.5°	314.2	317.8	331.6	342.7	349.5
165°	323.4	324.7	331.7	338.9	343.9
167.5°	329.7	328.5	334.7	337.9	339.9
170°	331.7	331.1	333.6	334.3	336.8
172.5°	336.3	334.2	335.2	333.3	335.3
175°	338.7	336.9	335.5	333.6	331.1
177.5°	339.8	336.8	335.2	333.1	333.6
180°	336.2	336.2	336.2	336.2	336.2

(END OF REPORT)