

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

Brand: CORELITE

Report Number: P701264

Luminaire Tested: SQ4P-WB-075U-075D-B50-1D-UNV-

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-2019
Report Number: P701264
REPORT IS A COMBINATION OF REPORTS P700240 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4P-WB-075U-075D-B50-1D-UNV-
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 750 LUM
FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

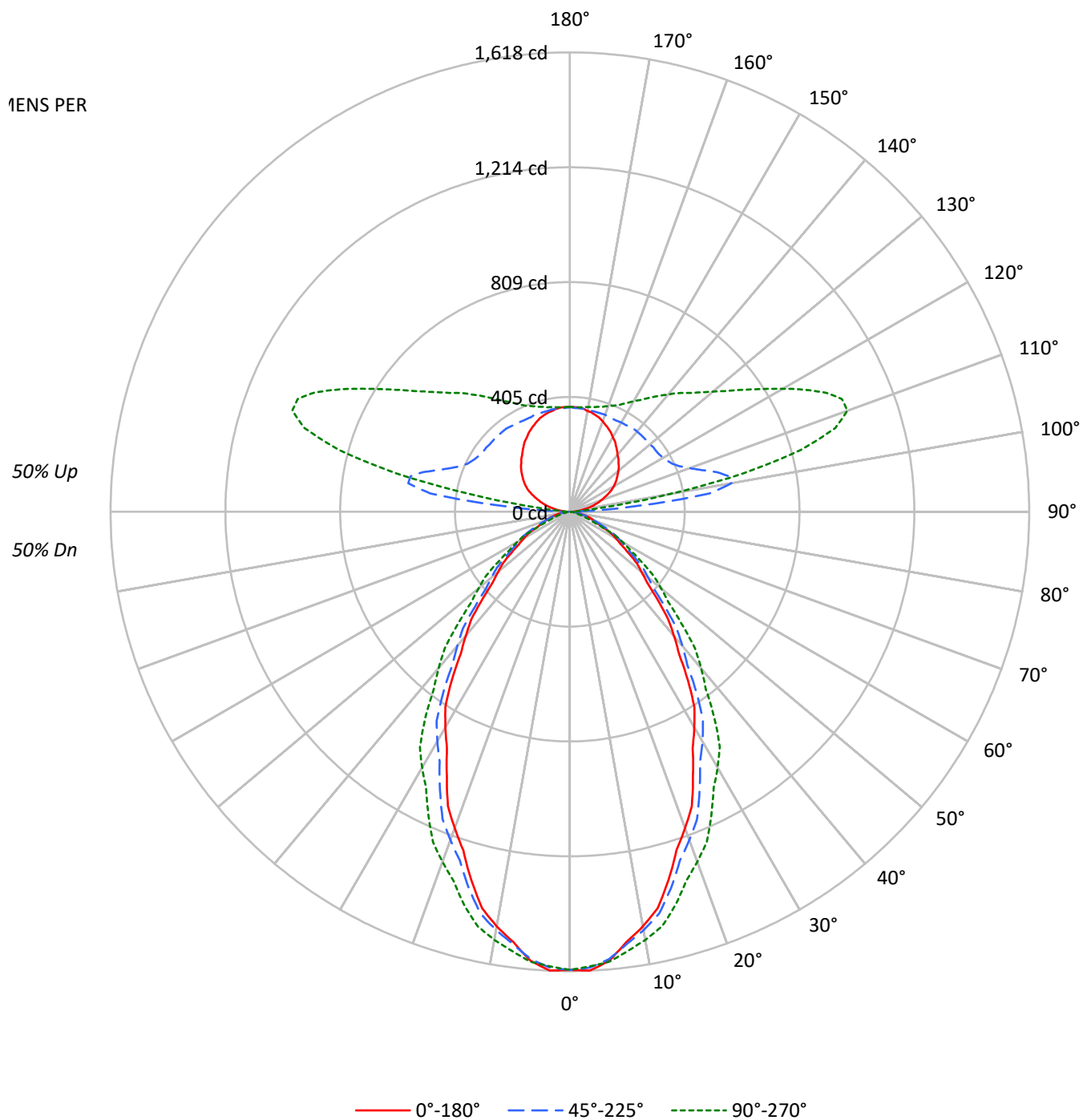
Lumens per Lamp: N/A
Luminaire Lumens: 4746.1 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 44.6
Input Voltage (V): NR
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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	56	56	56
1	99	95	91	88	91	88	85	82	74	72	70	62	61	60	51	50	49	49	49	44
2	91	84	79	74	84	78	73	69	67	63	60	56	54	52	46	45	43	43	43	39
3	84	75	68	63	77	70	64	59	60	56	52	51	48	45	42	40	38	38	38	34
4	77	67	60	55	71	63	56	52	54	49	46	46	43	40	38	36	34	34	34	31
5	71	61	53	48	66	57	50	45	49	44	40	42	38	35	35	33	31	31	31	27
6	66	55	47	42	61	51	45	40	45	40	36	38	35	32	33	30	28	28	28	25
7	62	50	43	37	57	47	40	36	41	36	32	35	31	28	30	27	25	25	25	22
8	57	46	39	34	53	43	37	32	38	33	29	33	29	26	28	25	23	23	23	21
9	54	42	35	30	50	40	33	29	35	30	26	30	26	24	26	23	21	21	21	19
10	50	39	32	28	47	37	30	26	32	27	24	28	24	22	24	21	19	19	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14888	14888	14888
5°	14703	14650	14736
10°	13892	14017	14342
15°	12823	13122	13710
20°	11645	12082	12882
25°	10446	11015	12002
30°	9339	9949	11088
35°	8167	8756	10010
40°	6872	7420	8664
45°	5672	6161	7235
50°	4735	5163	6026
55°	4020	4430	4977
60°	3438	3842	3973
65°	2738	3229	2565
70°	2428	2522	1567
75°	2246	2046	959
80°	2067	1881	824
85°	1863	1736	677

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7235 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.0	3.1
10°-20°	385.0	8.1
20°-30°	498.7	10.5
30°-40°	488.3	10.3
40°-50°	373.8	7.9
50°-60°	249.1	5.2
60°-70°	135.9	2.9
70°-80°	56.6	1.2
80°-90°	16.9	0.4
90°-100°	146.8	3.1
100°-110°	510.8	10.8
110°-120°	494.8	10.4
120°-130°	388.1	8.2
130°-140°	307.2	6.5
140°-150°	237.1	5.0
150°-160°	169.9	3.6
160°-170°	103.9	2.2
170°-180°	35.2	0.7
0°-30°	1031.7	21.7
0°-40°	1520.0	32.0
0°-60°	2142.9	45.2
0°-90°	2352.4	49.6
90°-120°	1152.3	24.3
90°-150°	2084.7	43.9
90°-180°	2394.0	50.4
0°-180°	4746.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1614	1614	1614	1614	1614	
5°	1588	1572	1582	1586	1591	148
15°	1342	1338	1374	1411	1435	375
25°	1026	1029	1082	1129	1179	472
35°	725	729	777	830	889	451
45°	435	443	472	508	554	339
55°	250	260	275	286	309	227
65°	125	136	148	129	118	130
75°	63	63	57	39	27	67
85°	18	18	16	11	6	19
90°	6	8	8	6	3	4
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1613.7	1613.7	1613.7	1613.7	1613.7
2.5°	1617.7	1603.3	1607.0	1606.8	1602.4
5°	1587.6	1571.5	1581.8	1585.5	1591.1
7.5°	1528.6	1516.6	1535.3	1549.1	1560.4
10°	1482.8	1472.3	1496.2	1516.4	1530.9
12.5°	1429.6	1420.7	1450.4	1477.3	1496.4
15°	1342.5	1337.7	1373.8	1411.1	1435.3
17.5°	1249.5	1247.2	1288.5	1332.1	1363.0
20°	1186.0	1185.4	1230.6	1276.1	1312.0
22.5°	1122.1	1123.5	1171.1	1218.4	1259.4
25°	1026.1	1028.8	1082.0	1129.1	1179.0
27.5°	937.3	938.5	993.3	1043.2	1096.4
30°	876.6	880.1	933.9	985.5	1040.8
32.5°	816.1	820.1	872.8	926.0	982.5
35°	725.1	728.6	777.4	829.9	888.7
37.5°	631.3	636.0	679.5	728.9	786.9
40°	570.6	577.7	616.1	662.7	719.4
42.5°	512.3	520.9	556.6	600.8	651.9
45°	434.7	443.1	472.2	508.0	554.5
47.5°	367.9	377.5	399.9	430.7	470.3
50°	329.9	339.0	359.7	382.4	419.8
52.5°	296.6	305.5	324.0	341.6	373.5
55°	249.9	260.3	275.4	286.0	309.4
57.5°	211.7	221.7	233.7	238.4	252.7
60°	186.3	197.4	208.2	207.5	215.3
62.5°	163.0	172.5	183.3	175.6	176.1
65°	125.4	135.8	147.9	129.4	117.5
67.5°	101.3	103.4	116.1	90.3	76.2
70°	90.0	90.0	93.5	69.9	58.1
72.5°	79.2	79.2	76.0	56.7	44.4
75°	63.0	63.0	57.4	39.4	26.9
77.5°	48.6	48.1	43.9	29.3	19.5
80°	38.9	38.9	35.4	23.2	15.5
82.5°	30.5	30.5	27.4	18.1	11.5
85°	17.6	17.6	16.4	10.6	6.4
87.5°	6.3	6.3	5.6	3.3	2.9
90°	5.5	8.3	8.3	5.5	2.8
92.5°	13.8	41.3	38.6	16.5	13.8
95°	24.8	85.3	247.7	63.3	38.6
97.5°	38.6	96.3	495.4	225.7	121.1
100°	52.3	101.9	578.0	542.3	349.6
102.5°	68.8	110.1	575.3	762.5	627.6
105°	85.3	121.1	536.8	905.6	842.3
107.5°	101.9	134.9	487.2	968.9	979.9
110°	115.6	148.6	448.7	960.6	1040.5

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.1	162.4	418.4	911.1	1037.7
115°	148.6	178.9	399.1	842.3	993.6
117.5°	165.2	198.2	388.1	778.9	930.3
120°	178.9	214.7	379.9	718.4	867.0
122.5°	189.9	231.2	374.3	668.9	803.7
125°	201.0	247.7	371.6	627.6	748.7
127.5°	211.9	258.8	371.6	597.3	699.2
130°	223.0	264.3	368.8	567.0	657.8
132.5°	233.9	266.9	368.8	545.0	622.1
135°	242.2	272.5	368.8	522.9	591.8
137.5°	253.2	278.0	368.8	503.7	567.0
140°	261.5	286.3	368.8	484.4	539.5
142.5°	272.5	294.6	368.8	465.2	514.7
145°	283.5	302.7	366.1	451.5	489.9
147.5°	294.6	311.0	363.3	437.6	467.9
150°	302.7	319.3	363.3	423.8	448.7
152.5°	313.8	327.5	360.5	410.1	432.1
155°	322.1	333.0	360.5	401.8	415.7
157.5°	330.3	341.3	360.5	393.6	404.6
160°	338.5	346.8	363.3	388.1	396.3
162.5°	346.8	352.3	363.3	382.6	388.1
165°	352.3	355.1	363.3	379.9	382.6
167.5°	357.9	360.5	363.3	377.1	377.1
170°	360.5	363.3	366.1	374.3	374.3
172.5°	366.1	366.1	366.1	371.6	371.6
175°	368.8	368.8	366.1	371.6	368.8
177.5°	368.8	368.8	366.1	371.6	368.8
180°	368.8	368.8	368.8	368.8	368.8

(END OF REPORT)