

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: P521122

Luminaire Tested: SQ4-BB-075U-125D-92765-1D-UNV-STD-W-4_4000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521122
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-075U-125D-92765-1D-UNV-STD-W-4_4000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6612.1 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

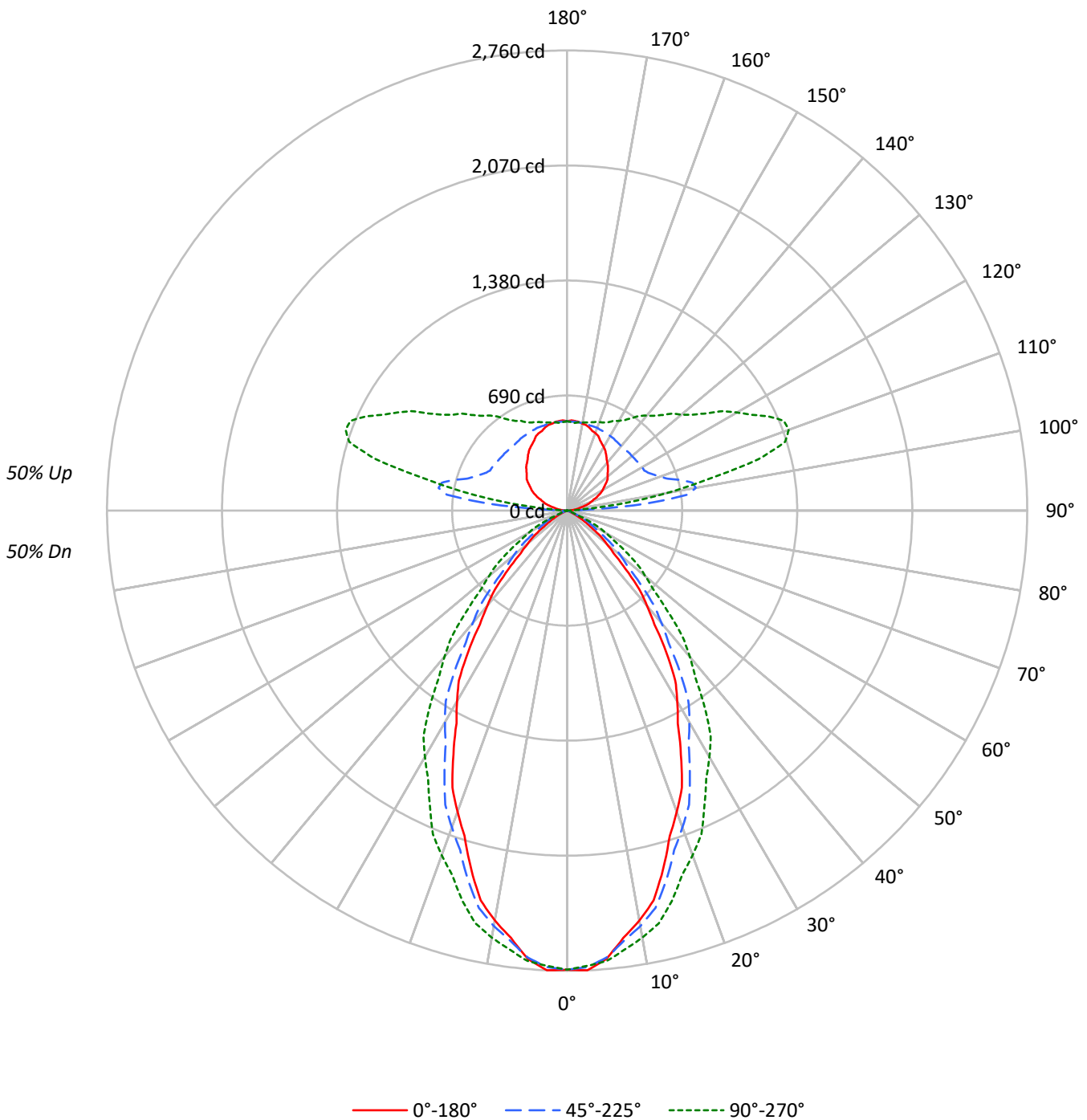
Input Watts (W): 79.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	50	30	10	0														
RCR																																						
0	107	107	107	107	99	99	99	99	83	83	83	69	69	69	56	56	56	50																				
1	99	96	93	90	92	89	86	84	75	74	72	63	62	61	52	51	51	45																				
2	92	86	81	76	85	80	75	72	68	65	62	58	56	54	48	47	45	41																				
3	85	77	71	66	79	72	66	62	62	58	55	53	50	48	44	42	41	37																				
4	79	70	63	57	73	65	59	54	56	52	48	48	45	43	41	39	37	33																				
5	73	63	56	51	68	59	53	48	51	47	43	44	41	38	38	35	33	30																				
6	68	57	50	45	63	54	47	43	47	42	39	41	37	35	35	33	30	28																				
7	63	52	45	40	59	49	43	39	43	38	35	38	34	31	33	30	28	25																				
8	59	48	41	36	55	45	39	35	40	35	32	35	31	29	30	28	26	23																				
9	56	44	38	33	52	42	36	32	37	32	29	33	29	26	28	26	24	22																				
10	52	41	35	30	49	39	33	29	35	30	27	31	27	24	27	24	22	20																				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	25406	25406	25406
5°	24998	24936	25121
10°	23389	23701	24363
15°	21263	21937	23159
20°	18875	19856	21595
25°	16438	17739	19841
30°	14080	15627	18181
35°	11674	13265	16175
40°	8969	10606	13783
45°	6483	8031	11091
50°	4417	5985	8796
55°	2871	4329	6836
60°	1648	3048	4942
65°	437	1862	2502
70°	216	575	718
75°	96	46	0
80°	69	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11091 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	3.8
10°-20°	642.7	9.7
20°-30°	804.6	12.2
30°-40°	743.1	11.2
40°-50°	499.4	7.6
50°-60°	257.9	3.9
60°-70°	80.8	1.2
70°-80°	5.1	0.1
80°-90°	0.1	0.0
90°-100°	244.1	3.7
100°-110°	694.5	10.5
110°-120°	665.4	10.1
120°-130°	526.6	8.0
130°-140°	422.7	6.4
140°-150°	330.9	5.0
150°-160°	242.1	3.7
160°-170°	150.0	2.3
170°-180°	50.9	0.8
0°-30°	1698.5	25.7
0°-40°	2441.7	36.9
0°-60°	3199.0	48.4
0°-90°	3284.9	49.7
90°-120°	1603.9	24.3
90°-150°	2884.1	43.6
90°-180°	3327.0	50.3
0°-180°	6612.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2754	2754	2754	2754	2754	
5°	2699	2672	2692	2702	2712	250
15°	2226	2218	2297	2374	2425	620
25°	1615	1628	1742	1862	1949	740
35°	1036	1062	1178	1316	1436	642
45°	497	527	616	735	850	390
55°	178	208	269	346	425	167
65°	20	38	85	103	115	34
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	1
95°	26	105	472	164	101	30
105°	108	164	708	1250	1188	114
115°	201	242	537	1137	1335	198
125°	283	314	512	850	1016	253
135°	346	375	506	718	812	267
145°	408	429	510	621	677	255
155°	466	477	522	562	584	216
165°	515	517	528	540	548	145
175°	540	537	535	532	528	51
180°	536	536	536	536	536	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2753.7	2753.7	2753.7	2753.7	2753.7
2.5°	2760.1	2734.0	2740.9	2740.7	2733.5
5°	2699.1	2671.7	2692.4	2702.0	2712.4
7.5°	2585.0	2563.7	2603.4	2633.2	2654.8
10°	2496.6	2478.3	2529.9	2570.5	2600.5
12.5°	2394.3	2380.2	2442.5	2498.3	2536.5
15°	2226.1	2218.3	2296.7	2373.8	2424.6
17.5°	2046.0	2045.8	2135.3	2231.0	2292.2
20°	1922.4	1926.3	2022.3	2127.9	2199.5
22.5°	1798.8	1807.9	1910.4	2020.4	2102.5
25°	1614.7	1627.7	1742.5	1861.8	1949.0
27.5°	1437.7	1456.8	1577.6	1701.5	1807.8
30°	1321.6	1343.7	1466.8	1597.2	1706.6
32.5°	1207.5	1233.8	1353.8	1491.7	1603.2
35°	1036.5	1062.5	1177.7	1316.3	1436.1
37.5°	859.8	885.3	997.8	1134.3	1263.7
40°	744.7	773.4	880.6	1012.8	1144.4
42.5°	640.3	668.9	769.8	899.7	1023.9
45°	496.9	526.9	615.5	735.3	850.0
47.5°	378.1	410.6	488.4	596.8	701.3
50°	307.7	340.3	417.0	512.5	612.8
52.5°	251.3	282.8	352.0	442.0	534.0
55°	178.5	208.5	269.1	345.5	425.0
57.5°	123.4	149.2	203.6	267.3	329.6
60°	89.3	114.0	165.2	217.0	267.8
62.5°	59.4	82.1	132.2	171.8	206.0
65°	20.0	38.2	85.3	102.8	114.6
67.5°	10.1	12.2	44.8	47.2	51.2
70°	8.0	8.0	21.3	22.7	26.6
72.5°	5.9	5.9	8.5	10.9	11.7
75°	2.7	2.7	1.3	0.0	0.0
77.5°	1.3	1.3	1.1	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	8.1	43.2	100.2	29.2	22.0
95°	26.5	105.1	472.5	163.5	100.8
97.5°	48.7	123.2	727.7	520.7	356.8
100°	64.2	133.8	783.1	793.2	611.0
102.5°	81.3	145.4	770.8	1015.3	856.2
105°	107.9	163.7	707.7	1250.1	1188.4
107.5°	135.0	185.0	634.0	1316.3	1371.2
110°	153.8	200.6	591.6	1290.9	1414.4

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	171.7	216.1	563.1	1231.0	1407.1
115°	200.6	242.4	536.6	1136.8	1335.0
117.5°	226.1	265.3	521.0	1033.9	1243.7
120°	246.4	279.3	519.3	975.0	1176.1
122.5°	262.7	295.6	515.3	923.4	1110.1
125°	283.1	314.0	512.2	850.0	1016.3
127.5°	305.3	334.2	510.6	806.1	943.1
130°	316.7	345.6	508.1	775.6	895.1
132.5°	328.9	357.0	508.1	751.8	861.7
135°	346.2	375.1	506.1	718.0	811.6
137.5°	362.5	390.6	505.9	689.4	770.2
140°	374.7	403.6	505.1	665.7	743.4
142.5°	388.6	412.7	507.5	646.8	716.5
145°	408.3	429.2	510.2	621.4	677.2
147.5°	425.2	445.6	514.6	595.8	644.0
150°	439.9	453.8	516.3	587.3	621.2
152.5°	451.3	466.0	517.9	575.8	607.3
155°	466.4	477.3	522.4	561.6	584.5
157.5°	485.1	491.7	523.4	555.1	571.5
160°	494.9	499.9	527.5	550.2	564.1
162.5°	500.6	506.4	528.3	546.1	556.8
165°	515.3	517.2	528.5	539.9	547.8
167.5°	525.2	523.4	533.2	538.3	541.5
170°	528.5	527.5	531.5	532.7	536.6
172.5°	535.8	532.4	534.0	531.0	534.2
175°	539.7	536.7	534.6	531.5	527.5
177.5°	541.3	536.5	534.0	530.8	531.5
180°	535.6	535.6	535.6	535.6	535.6

(END OF REPORT)