

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: P522043

Luminaire Tested: SQ4-WB-150U-100D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P522043
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-150U-100D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9814.6 lumens
Efficiency: N/A
Efficacy: 104.9 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: Semi-Indirect

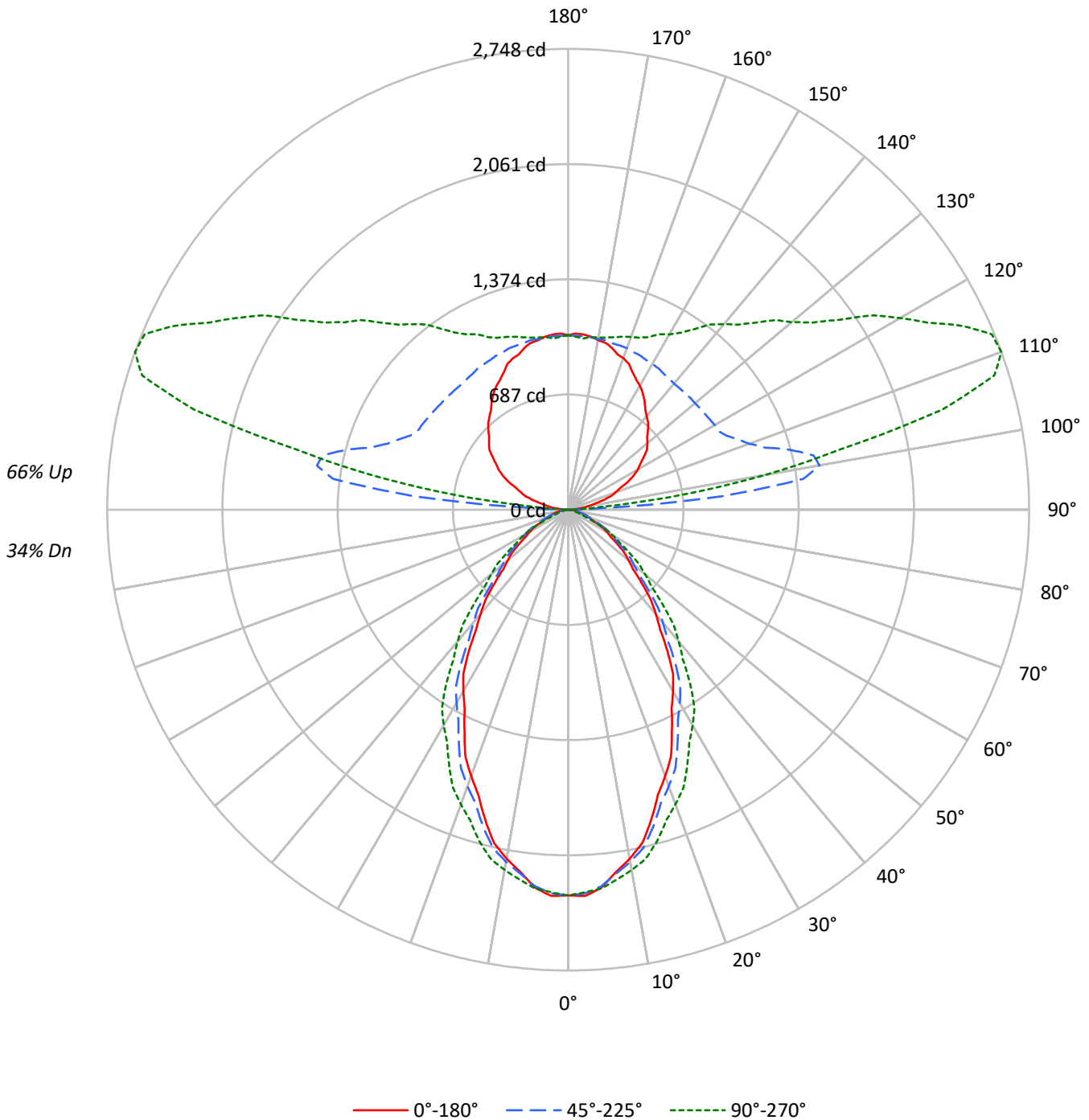
Input Watts (W): 93.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	75	75	75	57	57	57	42	42	42	34				
1	95	91	88	84	86	82	80	77	66	64	63	52	50	49	38	37	37	30				
2	87	80	75	70	79	73	68	64	59	56	53	46	44	42	34	33	32	27				
3	80	71	65	59	72	65	59	55	53	49	46	42	39	37	31	30	28	24				
4	74	64	56	51	66	58	52	47	47	43	40	38	35	32	28	27	25	21				
5	68	57	50	44	61	52	46	41	43	38	35	34	31	28	26	24	22	19				
6	63	51	44	39	57	47	41	36	39	34	31	31	28	25	24	22	20	17				
7	58	47	39	34	53	43	36	32	35	31	27	29	25	23	22	20	18	15				
8	54	43	35	30	49	39	33	28	32	28	24	26	23	20	20	18	17	14				
9	50	39	32	27	46	36	30	25	30	25	22	24	21	19	19	17	15	13				
10	47	36	29	25	43	33	27	23	28	23	20	23	19	17	18	16	14	12				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	21218	21218	21218
5°	20954	20879	21000
10°	19797	19977	20439
15°	18275	18699	19538
20°	16596	17220	18359
25°	14885	15697	17104
30°	13309	14180	15803
35°	11638	12480	14265
40°	9797	10573	12349
45°	8084	8782	10309
50°	6750	7358	8589
55°	5730	6315	7094
60°	4897	5475	5661
65°	3899	4604	3657
70°	3458	3593	2231
75°	3201	2912	1365
80°	2949	2683	1180
85°	2668	2456	963

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10309 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	210.9	2.1
10°-20°	548.7	5.6
20°-30°	710.7	7.2
30°-40°	696.0	7.1
40°-50°	532.7	5.4
50°-60°	355.0	3.6
60°-70°	193.7	2.0
70°-80°	80.7	0.8
80°-90°	22.9	0.2
90°-100°	474.1	4.8
100°-110°	1349.1	13.7
110°-120°	1292.6	13.2
120°-130°	1023.0	10.4
130°-140°	821.1	8.4
140°-150°	642.8	6.5
150°-160°	470.4	4.8
160°-170°	291.4	3.0
170°-180°	98.9	1.0
0°-30°	1470.3	15.0
0°-40°	2166.3	22.1
0°-60°	3054.0	31.1
0°-90°	3351.2	34.1
90°-120°	3115.8	31.7
90°-150°	5602.8	57.1
90°-180°	6463.0	65.9
0°-180°	9814.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2300	2300	2300	2300	2300	
5°	2262	2240	2254	2260	2268	210
15°	1913	1906	1958	2011	2046	534
25°	1462	1466	1542	1609	1680	672
35°	1033	1038	1108	1183	1266	642
45°	620	631	673	724	790	483
55°	356	371	393	407	441	323
65°	179	193	211	184	168	186
75°	90	90	82	56	38	96
85°	25	25	23	15	9	27
90°	0	0	0	0	0	3
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2299.8	2299.8	2299.8	2299.8	2299.8
2.5°	2305.5	2284.9	2290.1	2290.0	2283.7
5°	2262.5	2239.8	2254.4	2259.6	2267.5
7.5°	2178.5	2161.3	2188.0	2207.7	2223.7
10°	2113.1	2098.3	2132.3	2161.0	2181.7
12.5°	2037.2	2024.8	2066.9	2105.5	2132.5
15°	1913.3	1906.4	1957.7	2011.0	2045.5
17.5°	1780.7	1777.4	1836.2	1898.4	1942.6
20°	1690.3	1689.3	1753.9	1818.6	1869.9
22.5°	1599.1	1601.2	1669.1	1736.4	1794.8
25°	1462.2	1466.2	1541.9	1609.2	1680.2
27.5°	1335.7	1337.5	1415.8	1486.8	1562.5
30°	1249.3	1254.2	1331.0	1404.5	1483.4
32.5°	1162.9	1168.6	1243.9	1319.8	1400.3
35°	1033.3	1038.3	1108.0	1182.6	1266.5
37.5°	899.7	906.4	968.4	1038.9	1121.3
40°	813.4	823.2	877.9	944.4	1025.3
42.5°	730.2	742.4	793.2	856.2	929.2
45°	619.6	631.4	673.1	724.0	790.1
47.5°	524.3	538.0	570.0	613.8	670.3
50°	470.3	483.1	512.6	545.1	598.4
52.5°	422.6	435.4	461.8	486.8	532.2
55°	356.2	371.0	392.6	407.4	441.0
57.5°	301.7	315.9	333.0	339.7	360.1
60°	265.4	281.2	296.7	295.9	306.8
62.5°	232.3	245.7	261.2	250.5	251.1
65°	178.6	193.4	210.9	184.3	167.5
67.5°	144.3	147.5	165.5	128.5	108.6
70°	128.2	128.2	133.2	99.5	82.7
72.5°	112.8	112.8	108.2	80.9	63.4
75°	89.8	89.8	81.7	56.1	38.3
77.5°	69.2	68.4	62.6	41.9	27.9
80°	55.5	55.5	50.5	33.1	22.2
82.5°	43.4	43.4	39.2	25.8	16.5
85°	25.2	25.2	23.2	15.0	9.1
87.5°	8.9	8.9	8.1	4.8	4.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)