

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: P521978

Luminaire Tested: SQ4-WB-125U-075D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521978
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-125U-075D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1250 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: 7912.5 lumens
Efficiency: N/A
Efficacy: 107.8 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

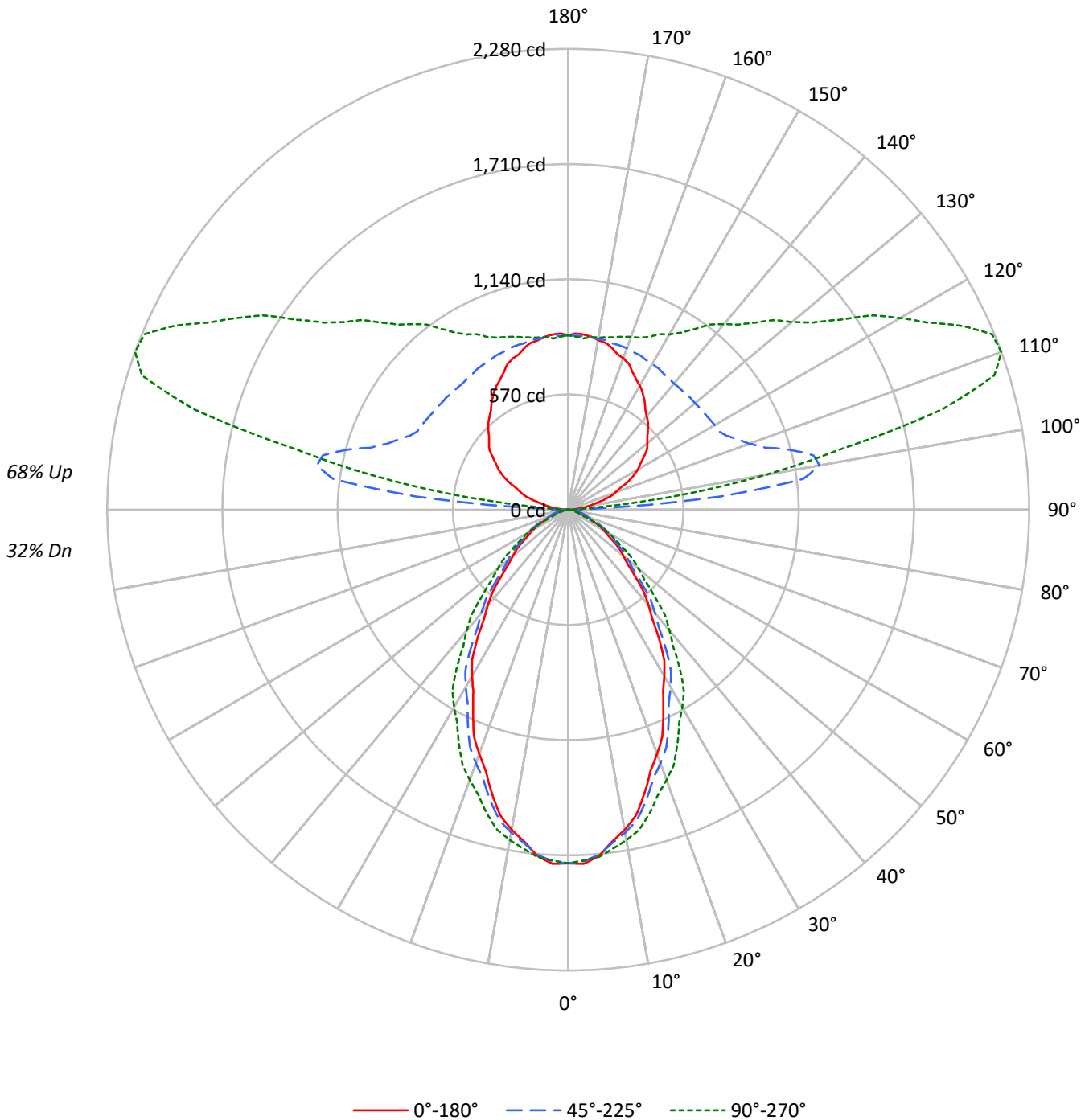
Input Watts (W): 73.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	103	103	103	103	93	93	93	93	73	73	73		56	56	56		40	40	40	32
1	95	91	87	84	85	82	79	76	65	63	62		50	49	48		36	36	35	29
2	87	80	74	70	78	72	68	64	58	55	52		45	43	41		33	32	31	25
3	80	71	64	59	72	64	59	54	52	48	45		40	38	36		30	28	27	22
4	73	63	56	51	66	57	51	47	47	42	39		37	34	31		27	25	24	20
5	67	57	49	44	61	52	45	40	42	37	34		33	30	28		25	23	21	18
6	62	51	44	38	56	47	40	35	38	33	30		30	27	25		23	21	19	16
7	58	46	39	34	52	42	36	31	35	30	27		28	24	22		21	19	17	15
8	54	42	35	30	48	39	32	28	32	27	24		26	22	20		20	17	16	13
9	50	39	32	27	45	35	29	25	29	25	21		24	20	18		18	16	14	12
10	47	35	29	24	42	33	27	23	27	23	19		22	19	16		17	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	16141	16141	16141
5°	15940	15882	15975
10°	15060	15196	15549
15°	13902	14224	14862
20°	12624	13100	13967
25°	11323	11941	13011
30°	10124	10787	12021
35°	8854	9494	10851
40°	7452	8044	9393
45°	6149	6680	7843
50°	5134	5598	6534
55°	4359	4803	5397
60°	3726	4165	4307
65°	2967	3502	2781
70°	2630	2733	1697
75°	2435	2217	1041
80°	2242	2040	898
85°	2032	1874	730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7843 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.5	2.0
10°-20°	417.4	5.3
20°-30°	540.6	6.8
30°-40°	529.4	6.7
40°-50°	405.2	5.1
50°-60°	270.0	3.4
60°-70°	147.4	1.9
70°-80°	61.4	0.8
80°-90°	17.4	0.2
90°-100°	393.4	5.0
100°-110°	1119.5	14.1
110°-120°	1072.5	13.6
120°-130°	848.9	10.7
130°-140°	681.4	8.6
140°-150°	533.4	6.7
150°-160°	390.3	4.9
160°-170°	241.8	3.1
170°-180°	82.0	1.0
0°-30°	1118.5	14.1
0°-40°	1647.9	20.8
0°-60°	2323.1	29.4
0°-90°	2549.3	32.2
90°-120°	2585.4	32.7
90°-150°	4649.1	58.8
90°-180°	5363.0	67.8
0°-180°	7912.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1750	1750	1750	1750	1750	
5°	1721	1704	1715	1719	1725	160
15°	1456	1450	1489	1530	1556	406
25°	1112	1115	1173	1224	1278	512
35°	786	790	843	900	963	489
45°	471	480	512	551	601	368
55°	271	282	299	310	336	246
65°	136	147	160	140	127	141
75°	68	68	62	43	29	73
85°	19	19	18	11	7	21
90°	0	0	0	0	0	3
95°	43	170	762	264	162	49
105°	174	264	1141	2015	1916	184
115°	323	391	865	1832	2152	318
125°	456	506	826	1370	1638	408
135°	558	605	816	1157	1308	431
145°	658	692	822	1002	1092	411
155°	752	769	842	905	942	348
165°	831	834	852	870	883	234
175°	870	865	862	857	850	82
180°	863	863	863	863	863	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1749.5	1749.5	1749.5	1749.5	1749.5
2.5°	1753.8	1738.2	1742.1	1742.0	1737.2
5°	1721.1	1703.8	1714.9	1718.9	1724.9
7.5°	1657.2	1644.1	1664.4	1679.4	1691.6
10°	1607.5	1596.2	1622.0	1643.9	1659.7
12.5°	1549.7	1540.3	1572.3	1601.6	1622.2
15°	1455.5	1450.2	1489.2	1529.8	1556.0
17.5°	1354.6	1352.0	1396.8	1444.1	1477.7
20°	1285.8	1285.1	1334.2	1383.4	1422.5
22.5°	1216.4	1218.1	1269.7	1320.9	1365.3
25°	1112.3	1115.3	1173.0	1224.1	1278.1
27.5°	1016.1	1017.4	1077.0	1131.0	1188.6
30°	950.3	954.1	1012.5	1068.4	1128.4
32.5°	884.6	889.0	946.2	1003.9	1065.2
35°	786.1	789.8	842.9	899.6	963.4
37.5°	684.4	689.5	736.6	790.3	853.0
40°	618.7	626.2	667.9	718.4	779.9
42.5°	555.5	564.8	603.4	651.3	706.9
45°	471.3	480.3	512.0	550.8	601.1
47.5°	398.9	409.2	433.6	466.9	509.9
50°	357.7	367.5	390.0	414.7	455.2
52.5°	321.5	331.2	351.3	370.3	404.9
55°	271.0	282.2	298.6	309.9	335.5
57.5°	229.5	240.3	253.3	258.4	273.9
60°	201.9	213.9	225.7	225.1	233.4
62.5°	176.7	186.9	198.7	190.5	191.0
65°	135.9	147.1	160.4	140.2	127.4
67.5°	109.8	112.2	125.9	97.8	82.6
70°	97.5	97.5	101.3	75.7	62.9
72.5°	85.8	85.8	82.3	61.6	48.2
75°	68.3	68.3	62.2	42.7	29.2
77.5°	52.7	52.1	47.6	31.8	21.2
80°	42.2	42.2	38.4	25.1	16.9
82.5°	33.0	33.0	29.8	19.6	12.6
85°	19.2	19.2	17.7	11.4	6.9
87.5°	6.8	6.8	6.1	3.7	3.1
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.1	69.6	161.5	47.0	35.5
95°	42.7	169.5	761.6	263.6	162.5
97.5°	78.5	198.5	1173.0	839.3	575.2
100°	103.4	215.8	1262.3	1278.6	984.9
102.5°	131.0	234.3	1242.6	1636.6	1380.1
105°	174.0	263.9	1140.8	2015.1	1915.6
107.5°	217.7	298.2	1022.0	2121.8	2210.4
110°	247.9	323.3	953.7	2080.9	2279.9

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	276.7	348.3	907.7	1984.4	2268.1
115°	323.4	390.8	865.0	1832.5	2151.9
117.5°	364.4	427.6	839.8	1666.5	2004.8
120°	397.2	450.2	837.1	1571.7	1895.9
122.5°	423.5	476.5	830.6	1488.4	1789.5
125°	456.3	506.1	825.6	1370.1	1638.1
127.5°	492.1	538.6	823.0	1299.5	1520.3
130°	510.5	557.0	819.1	1250.2	1442.8
132.5°	530.2	575.4	819.1	1211.8	1389.0
135°	558.1	604.6	815.8	1157.4	1308.2
137.5°	584.3	629.6	815.5	1111.3	1241.6
140°	604.0	650.6	814.2	1073.1	1198.2
142.5°	626.4	665.2	818.1	1042.6	1154.9
145°	658.2	691.9	822.4	1001.7	1091.6
147.5°	685.5	718.2	829.6	960.4	1038.0
150°	709.1	731.6	832.2	946.7	1001.3
152.5°	727.5	751.2	834.8	928.2	978.9
155°	751.8	769.4	842.1	905.3	942.2
157.5°	782.0	792.6	843.7	894.9	921.2
160°	797.7	805.8	850.3	886.9	909.4
162.5°	806.9	816.2	851.6	880.2	897.5
165°	830.6	833.8	851.9	870.3	883.1
167.5°	846.7	843.8	859.5	867.8	872.9
170°	851.9	850.3	856.8	858.6	865.0
172.5°	863.7	858.3	860.8	856.0	861.1
175°	870.0	865.1	861.8	856.7	850.3
177.5°	872.6	864.9	860.8	855.5	856.8
180°	863.4	863.4	863.4	863.4	863.4

(END OF REPORT)