

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: P521874

Luminaire Tested: SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4_3000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521874
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-0U-075D-92765-1D-UNV-STD-W-4_3000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 750 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2549.3 lumens
Efficiency: N/A
Efficacy: 79.9 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: Direct

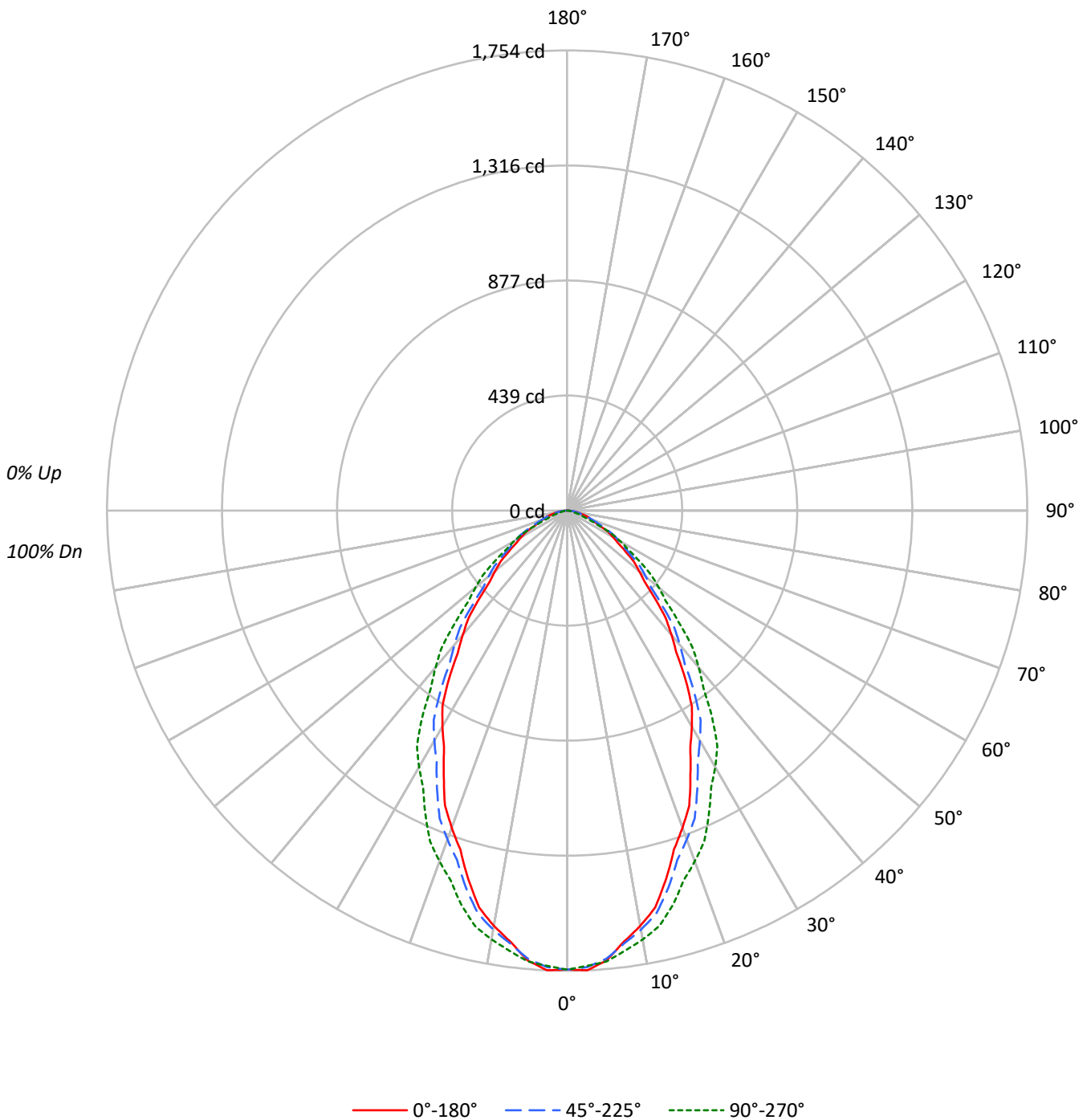
Input Watts (W): 31.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89					89			
2	103	97	91	87	101	95	90	86	92	87	84	88	85	82	85	83	80	78					78			
3	96	87	81	75	94	86	80	75	83	78	73	80	76	72	78	74	71	69					69			
4	89	79	72	66	87	78	71	66	76	70	65	74	68	64	71	67	64	62					62			
5	83	72	65	59	81	71	64	59	69	63	58	67	62	58	66	61	57	55					55			
6	78	66	59	53	76	65	58	53	64	57	53	62	56	52	61	56	52	50					50			
7	73	61	53	48	71	60	53	48	59	52	48	58	52	47	56	51	47	45					45			
8	68	57	49	44	67	56	49	44	55	48	44	53	48	43	52	47	43	41					41			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38					38			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35					35			

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	6.3
10°-20°	417.4	16.4
20°-30°	540.6	21.2
30°-40°	529.4	20.8
40°-50°	405.2	15.9
50°-60°	270.0	10.6
60°-70°	147.4	5.8
70°-80°	61.4	2.4
80°-90°	17.4	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1118.5	43.9
0°-40°	1647.9	64.6
0°-60°	2323.1	91.1
0°-90°	2549.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2549.3	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	22
90°	0	0	0	0	0	

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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

(END OF REPORT)