

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: P521904

Luminaire Tested: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_5000K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521904
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-125D-92765-1D-UNV-STD-W-4_5000K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
DIRECT ONLY
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4545.3 lumens
Efficiency: N/A
Efficacy: 81.6 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

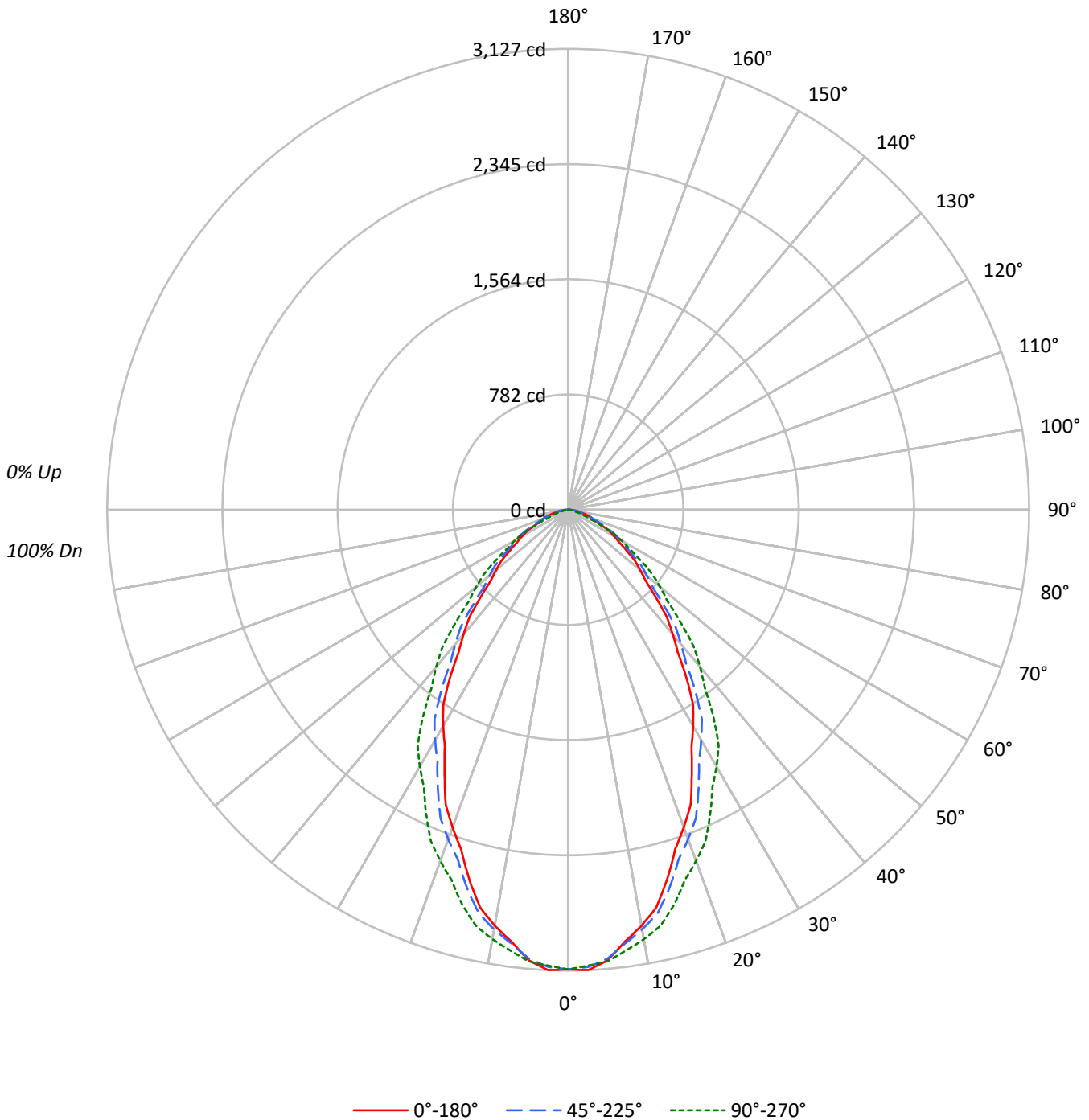
Input Watts (W): 55.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	28778	28778	28778
5°	28420	28318	28483
10°	26850	27094	27722
15°	24787	25363	26499
20°	22509	23356	24901
25°	20189	21290	23199
30°	18051	19233	21435
35°	15785	16926	19347
40°	13287	14342	16748
45°	10965	11911	13983
50°	9155	9980	11649
55°	7771	8564	9621
60°	6643	7425	7678
65°	5290	6246	4960
70°	4688	4874	3027
75°	4342	3953	1854
80°	4001	3634	1599
85°	3620	3335	1302

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13983 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.1	6.3
10°-20°	744.2	16.4
20°-30°	963.9	21.2
30°-40°	943.9	20.8
40°-50°	722.5	15.9
50°-60°	481.4	10.6
60°-70°	262.7	5.8
70°-80°	109.5	2.4
80°-90°	31.0	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°	1994.2	43.9
0°-40°	2938.1	64.6
0°-60°	4142.1	91.1
0°-90°	4545.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4545.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3119	3119	3119	3119	3119	
5°	3069	3038	3058	3065	3075	285
15°	2595	2586	2655	2728	2774	725
25°	1983	1989	2091	2182	2279	912
35°	1402	1408	1503	1604	1718	871
45°	840	856	913	982	1072	655
55°	483	503	532	553	598	438
65°	242	262	286	250	227	252
75°	122	122	111	76	52	130
85°	34	34	32	20	12	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3119.2	3119.2	3119.2	3119.2	3119.2
2.5°	3126.9	3099.1	3106.1	3105.9	3097.3
5°	3068.6	3037.8	3057.6	3064.7	3075.4
7.5°	2954.7	2931.4	2967.6	2994.4	3016.0
10°	2866.0	2846.0	2892.0	2931.0	2959.1
12.5°	2763.1	2746.2	2803.3	2855.6	2892.3
15°	2595.0	2585.7	2655.3	2727.5	2774.3
17.5°	2415.2	2410.6	2490.5	2574.8	2634.7
20°	2292.6	2291.2	2378.8	2466.6	2536.2
22.5°	2168.8	2171.8	2263.8	2355.1	2434.3
25°	1983.2	1988.6	2091.4	2182.5	2278.9
27.5°	1811.6	1814.0	1920.3	2016.5	2119.3
30°	1694.4	1701.1	1805.3	1904.9	2012.0
32.5°	1577.3	1585.0	1687.0	1790.0	1899.2
35°	1401.5	1408.2	1502.8	1604.0	1717.7
37.5°	1220.3	1229.4	1313.4	1409.0	1520.9
40°	1103.2	1116.5	1190.8	1280.8	1390.6
42.5°	990.4	1007.0	1075.8	1161.3	1260.3
45°	840.4	856.4	912.9	982.0	1071.7
47.5°	711.2	729.6	773.0	832.5	909.1
50°	637.8	655.2	695.3	739.4	811.6
52.5°	573.2	590.6	626.3	660.3	721.8
55°	483.1	503.2	532.4	552.6	598.1
57.5°	409.2	428.5	451.7	460.8	488.3
60°	360.0	381.4	402.4	401.4	416.1
62.5°	315.1	333.3	354.2	339.7	340.5
65°	242.3	262.3	286.1	250.0	227.2
67.5°	195.7	200.0	224.5	174.3	147.3
70°	173.8	173.8	180.7	135.0	112.2
72.5°	153.0	153.0	146.7	109.8	86.0
75°	121.8	121.8	110.9	76.1	52.0
77.5°	93.9	92.8	84.9	56.8	37.8
80°	75.3	75.3	68.4	44.8	30.1
82.5°	58.9	58.9	53.1	35.0	22.4
85°	34.2	34.2	31.5	20.3	12.3
87.5°	12.0	12.0	10.9	6.5	5.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)