

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: P521899

Luminaire Tested: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_2700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521899
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_2700K
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4156.8 lumens
Efficiency: N/A
Efficacy: 74.8 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: Direct

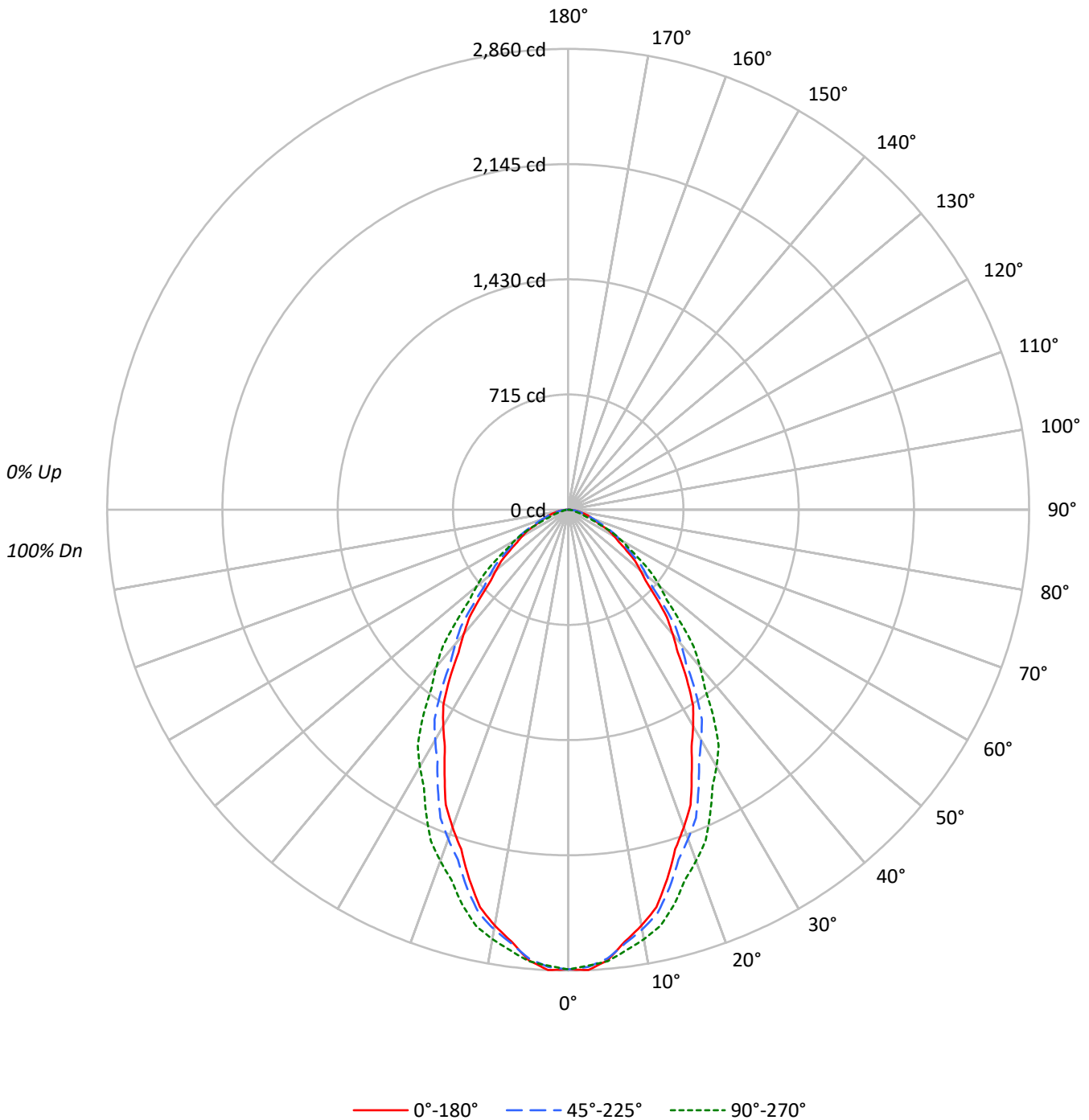
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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°	26319	26319	26319
5°	25990	25898	26048
10°	24555	24778	25352
15°	22668	23194	24234
20°	20585	21359	22773
25°	18463	19470	21216
30°	16509	17589	19602
35°	14436	15480	17693
40°	12151	13116	15316
45°	10027	10894	12788
50°	8372	9127	10653
55°	7107	7832	8799
60°	6075	6790	7021
65°	4836	5711	4536
70°	4289	4456	2768
75°	3971	3615	1697
80°	3655	3326	1461
85°	3313	3049	1196

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12788 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	261.7	6.3
10°-20°	680.6	16.4
20°-30°	881.5	21.2
30°-40°	863.2	20.8
40°-50°	660.8	15.9
50°-60°	440.3	10.6
60°-70°	240.3	5.8
70°-80°	100.1	2.4
80°-90°	28.3	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°	1823.7	43.9
0°-40°	2687.0	64.6
0°-60°	3788.0	91.1
0°-90°	4156.8	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4156.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2853	2853	2853	2853	2853	
5°	2806	2778	2796	2803	2812	261
15°	2373	2365	2428	2494	2537	663
25°	1814	1819	1913	1996	2084	834
35°	1282	1288	1374	1467	1571	797
45°	768	783	835	898	980	599
55°	442	460	487	505	547	401
65°	222	240	262	229	208	230
75°	111	111	101	70	48	119
85°	31	31	29	19	11	35
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2852.6	2852.6	2852.6	2852.6	2852.6
2.5°	2859.6	2834.1	2840.6	2840.4	2832.6
5°	2806.3	2778.1	2796.3	2802.7	2812.5
7.5°	2702.1	2680.8	2713.9	2738.4	2758.2
10°	2621.0	2602.7	2644.8	2680.4	2706.1
12.5°	2526.9	2511.5	2563.7	2611.5	2645.1
15°	2373.2	2364.6	2428.3	2494.3	2537.2
17.5°	2208.7	2204.6	2277.6	2354.7	2409.5
20°	2096.6	2095.4	2175.4	2255.7	2319.4
22.5°	1983.4	1986.1	2070.3	2153.8	2226.2
25°	1813.7	1818.6	1912.6	1995.9	2084.1
27.5°	1656.7	1658.9	1756.1	1844.1	1938.1
30°	1549.6	1555.7	1651.0	1742.1	1840.0
32.5°	1442.4	1449.5	1542.8	1637.0	1736.8
35°	1281.7	1287.8	1374.4	1466.8	1570.9
37.5°	1116.0	1124.3	1201.1	1288.6	1390.9
40°	1008.9	1021.1	1089.0	1171.4	1271.7
42.5°	905.7	920.9	983.8	1062.0	1152.6
45°	768.5	783.2	834.9	898.1	980.1
47.5°	650.4	667.3	707.0	761.4	831.4
50°	583.3	599.2	635.9	676.2	742.2
52.5°	524.2	540.1	572.8	603.8	660.1
55°	441.8	460.2	486.9	505.4	547.0
57.5°	374.3	391.9	413.1	421.4	446.6
60°	329.2	348.8	368.0	367.1	380.5
62.5°	288.1	304.8	323.9	310.7	311.4
65°	221.5	239.9	261.6	228.6	207.8
67.5°	179.0	182.9	205.3	159.4	134.7
70°	159.0	159.0	165.2	123.4	102.6
72.5°	139.9	139.9	134.2	100.4	78.6
75°	111.4	111.4	101.4	69.6	47.6
77.5°	85.9	84.9	77.6	51.9	34.5
80°	68.8	68.8	62.6	41.0	27.5
82.5°	53.8	53.8	48.6	32.0	20.5
85°	31.3	31.3	28.8	18.6	11.3
87.5°	11.0	11.0	10.0	6.0	5.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)