

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: P521905

Luminaire Tested: SQ4-WB-0U-125D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521905
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_5700K
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 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4610.0 lumens
Efficiency: N/A
Efficacy: 82.9 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

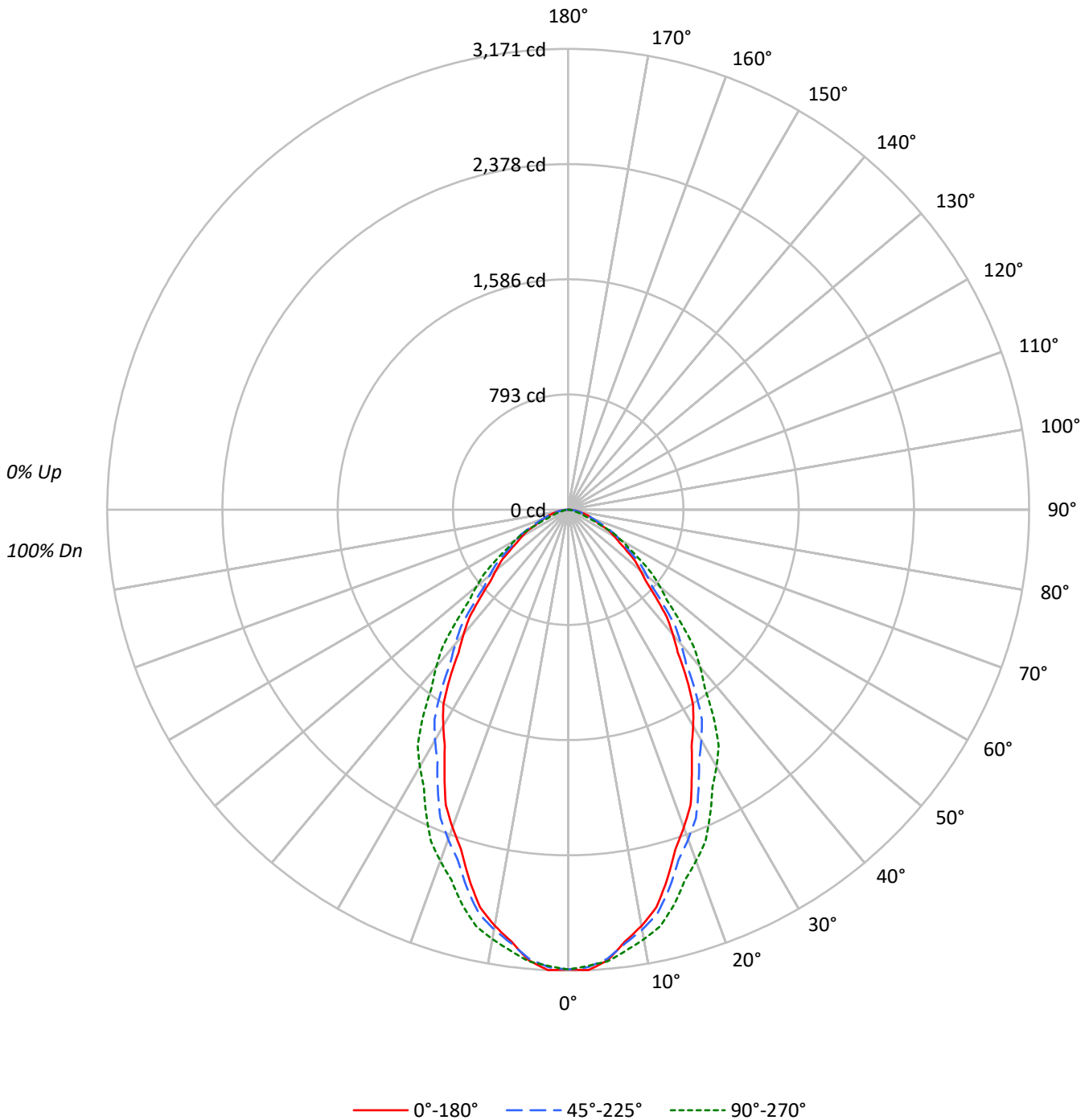
Input Watts (W): 55.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	29189	29189	29189
5°	28824	28722	28888
10°	27233	27480	28118
15°	25140	25724	26876
20°	22830	23689	25256
25°	20477	21593	23529
30°	18309	19507	21740
35°	16011	17167	19623
40°	13476	14545	16987
45°	11121	12081	14182
50°	9285	10122	11816
55°	7882	8686	9757
60°	6737	7530	7787
65°	5364	6333	5030
70°	4756	4942	3070
75°	4402	4007	1882
80°	4059	3687	1621
85°	3673	3377	1323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 14182 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	6.3
10°-20°	754.8	16.4
20°-30°	977.7	21.2
30°-40°	957.4	20.8
40°-50°	732.8	15.9
50°-60°	488.3	10.6
60°-70°	266.5	5.8
70°-80°	111.0	2.4
80°-90°	31.4	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°	2022.6	43.9
0°-40°	2980.0	64.6
0°-60°	4201.1	91.1
0°-90°	4610.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4610.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3164	3164	3164	3164	3164	
5°	3112	3081	3101	3108	3119	290
15°	2632	2622	2693	2766	2814	735
25°	2012	2017	2121	2214	2311	925
35°	1422	1428	1524	1627	1742	884
45°	852	869	926	996	1087	665
55°	490	510	540	560	607	444
65°	246	266	290	254	230	255
75°	124	124	112	77	53	132
85°	35	35	32	21	12	39
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3163.7	3163.7	3163.7	3163.7	3163.7
2.5°	3171.4	3143.2	3150.3	3150.1	3141.5
5°	3112.3	3081.1	3101.2	3108.4	3119.2
7.5°	2996.8	2973.2	3009.9	3037.0	3059.0
10°	2906.9	2886.5	2933.2	2972.7	3001.3
12.5°	2802.5	2785.4	2843.3	2896.3	2933.5
15°	2632.0	2622.5	2693.1	2766.3	2813.8
17.5°	2449.6	2445.0	2525.9	2611.4	2672.3
20°	2325.2	2323.9	2412.7	2501.7	2572.3
22.5°	2199.7	2202.7	2296.1	2388.7	2469.0
25°	2011.5	2016.9	2121.1	2213.6	2311.3
27.5°	1837.4	1839.8	1947.6	2045.2	2149.5
30°	1718.6	1725.4	1831.0	1932.0	2040.6
32.5°	1599.7	1607.6	1711.1	1815.5	1926.2
35°	1421.5	1428.3	1524.2	1626.8	1742.2
37.5°	1237.7	1246.9	1332.1	1429.1	1542.6
40°	1118.9	1132.4	1207.7	1299.1	1410.4
42.5°	1004.5	1021.3	1091.1	1177.8	1278.2
45°	852.3	868.6	925.9	996.0	1086.9
47.5°	721.3	740.0	784.0	844.4	922.0
50°	646.9	664.5	705.2	749.9	823.2
52.5°	581.4	599.0	635.2	669.7	732.1
55°	490.0	510.4	540.0	560.5	606.6
57.5°	415.1	434.6	458.1	467.3	495.3
60°	365.1	386.8	408.1	407.1	422.0
62.5°	319.6	338.0	359.3	344.6	345.4
65°	245.7	266.1	290.1	253.5	230.4
67.5°	198.5	202.9	227.7	176.8	149.4
70°	176.3	176.3	183.2	136.9	113.8
72.5°	155.2	155.2	148.8	111.3	87.2
75°	123.5	123.5	112.4	77.2	52.8
77.5°	95.2	94.1	86.1	57.6	38.3
80°	76.4	76.4	69.4	45.5	30.5
82.5°	59.7	59.7	53.9	35.5	22.8
85°	34.7	34.7	31.9	20.6	12.5
87.5°	12.2	12.2	11.1	6.6	5.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)