

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: P521277

Luminaire Tested: SQ4-BB-125U-125D-92765-1D-UNV-STD-W-4_3500K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521277
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-12)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-BB-125U-125D-92765-1D-UNV-STD-W-4_3500K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH BLACK BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8717.7 lumens
Efficiency: N/A
Efficacy: 89.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

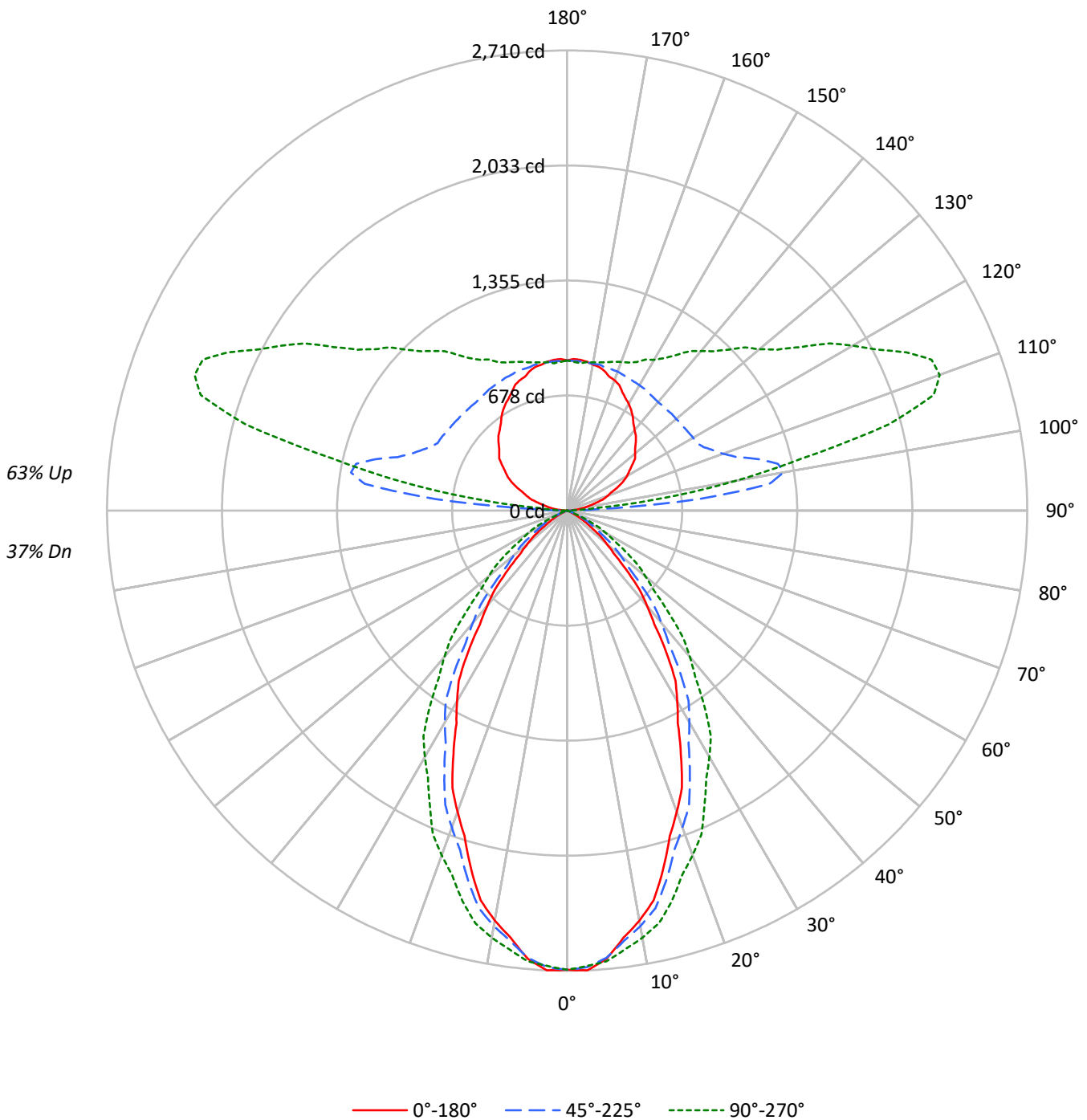
Input Watts (W): 97.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	104	104	104	104	94	94	94	94	76	76	76		59	59	59		44	44	44	37
1	96	92	89	86	87	84	81	79	69	67	65		54	53	52		41	40	40	34
2	89	82	77	73	80	75	71	67	62	59	56		49	47	46		38	37	36	31
3	82	74	67	62	74	67	62	58	56	52	49		45	42	40		35	33	32	28
4	75	66	59	54	69	61	55	50	50	46	43		41	38	36		32	30	29	25
5	70	59	52	47	63	55	49	44	46	41	38		37	34	32		30	28	26	23
6	65	54	47	41	59	50	43	39	42	37	34		34	31	29		27	25	24	21
7	60	49	42	37	55	45	39	35	38	34	30		32	28	26		25	23	22	19
8	56	45	38	33	51	42	35	31	35	31	27		29	26	24		24	21	20	17
9	52	41	34	30	48	38	32	28	33	28	25		27	24	22		22	20	18	16
10	49	38	31	27	45	35	30	26	30	26	23		25	22	20		21	19	17	15

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24949	24949	24949
5°	24548	24487	24670
10°	22969	23275	23925
15°	20881	21544	22743
20°	18536	19499	21208
25°	16141	17420	19484
30°	13826	15345	17854
35°	11464	13026	15884
40°	8808	10416	13535
45°	6367	7886	10891
50°	4338	5878	8638
55°	2820	4251	6712
60°	1618	2993	4853
65°	428	1827	2456
70°	210	564	707
75°	93	46	0
80°	69	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 10891 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	246.8	2.8
10°-20°	631.1	7.2
20°-30°	790.1	9.1
30°-40°	729.8	8.4
40°-50°	490.4	5.6
50°-60°	253.3	2.9
60°-70°	79.3	0.9
70°-80°	5.0	0.1
80°-90°	0.1	0.0
90°-100°	402.9	4.6
100°-110°	1146.3	13.1
110°-120°	1098.3	12.6
120°-130°	869.3	10.0
130°-140°	697.7	8.0
140°-150°	546.2	6.3
150°-160°	399.7	4.6
160°-170°	247.6	2.8
170°-180°	84.0	1.0
0°-30°	1668.0	19.1
0°-40°	2397.8	27.5
0°-60°	3141.5	36.0
0°-90°	3225.9	37.0
90°-120°	2647.5	30.4
90°-150°	4760.6	54.6
90°-180°	5492.0	63.0
0°-180°	8717.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2704	2704	2704	2704	2704	
5°	2651	2624	2644	2653	2664	246
15°	2186	2178	2256	2331	2381	609
25°	1586	1598	1711	1828	1914	727
35°	1018	1043	1156	1293	1410	631
45°	488	517	604	722	835	383
55°	175	205	264	339	417	164
65°	20	38	84	101	112	33
75°	3	3	1	0	0	4
85°	0	0	0	0	0	0
90°	0	0	0	0	0	2
95°	44	174	780	270	166	50
105°	178	270	1168	2063	1962	188
115°	331	400	886	1876	2204	326
125°	467	518	846	1403	1678	418
135°	572	619	835	1185	1340	441
145°	674	708	842	1026	1118	421
155°	770	788	862	927	965	356
165°	850	854	872	891	904	239
175°	891	886	882	877	871	84
180°	884	884	884	884	884	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2704.2	2704.2	2704.2	2704.2	2704.2
2.5°	2710.5	2684.9	2691.7	2691.5	2684.3
5°	2650.6	2623.7	2644.0	2653.4	2663.7
7.5°	2538.6	2517.6	2556.7	2585.9	2607.2
10°	2451.7	2433.8	2484.4	2524.4	2553.8
12.5°	2351.3	2337.4	2398.6	2453.4	2491.0
15°	2186.1	2178.5	2255.5	2331.2	2381.1
17.5°	2009.3	2009.0	2096.9	2190.9	2251.0
20°	1887.9	1891.7	1986.0	2089.6	2160.0
22.5°	1766.4	1775.4	1876.1	1984.1	2064.7
25°	1585.6	1598.4	1711.2	1828.3	1914.0
27.5°	1411.9	1430.6	1549.3	1671.0	1775.3
30°	1297.8	1319.6	1440.4	1568.5	1675.9
32.5°	1185.8	1211.7	1329.5	1464.9	1574.4
35°	1017.8	1043.4	1156.5	1292.6	1410.3
37.5°	844.4	869.4	979.9	1113.9	1241.0
40°	731.3	759.5	864.8	994.6	1123.8
42.5°	628.8	656.9	755.9	883.5	1005.5
45°	488.0	517.4	604.4	722.1	834.7
47.5°	371.3	403.3	479.6	586.1	688.7
50°	302.2	334.2	409.5	503.3	601.8
52.5°	246.7	277.7	345.6	434.0	524.4
55°	175.3	204.7	264.3	339.3	417.3
57.5°	121.1	146.5	199.9	262.5	323.7
60°	87.7	112.0	162.2	213.1	263.0
62.5°	58.3	80.6	129.8	168.7	202.3
65°	19.6	37.5	83.7	101.0	112.5
67.5°	9.9	12.0	44.0	46.4	50.2
70°	7.8	7.8	20.9	22.3	26.2
72.5°	5.8	5.8	8.4	10.7	11.5
75°	2.6	2.6	1.3	0.0	0.0
77.5°	1.3	1.3	1.0	0.0	0.0
80°	1.3	1.3	0.0	0.0	0.0
82.5°	0.3	0.3	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	13.4	71.3	165.4	48.1	36.3
95°	43.7	173.5	779.9	269.9	166.4
97.5°	80.3	203.3	1201.1	859.5	589.0
100°	105.9	220.9	1292.6	1309.2	1008.5
102.5°	134.1	240.0	1272.4	1675.9	1413.2
105°	178.2	270.2	1168.2	2063.4	1961.5
107.5°	222.9	305.4	1046.5	2172.7	2263.4
110°	253.8	331.0	976.6	2130.9	2334.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	283.4	356.7	929.5	2032.0	2322.6
115°	331.1	400.1	885.8	1876.5	2203.6
117.5°	373.1	437.9	859.9	1706.5	2053.0
120°	406.8	461.0	857.2	1609.4	1941.3
122.5°	433.7	487.9	850.5	1524.1	1832.4
125°	467.3	518.2	845.5	1403.0	1677.5
127.5°	503.9	551.6	842.8	1330.6	1556.8
130°	522.7	570.4	838.7	1280.2	1477.4
132.5°	542.9	589.3	838.7	1240.9	1422.3
135°	571.5	619.1	835.4	1185.1	1339.6
137.5°	598.4	644.7	835.0	1137.9	1271.4
140°	618.5	666.2	833.7	1098.8	1227.0
142.5°	641.4	681.2	837.7	1067.6	1182.6
145°	674.0	708.5	842.1	1025.7	1117.7
147.5°	701.9	735.4	849.5	983.4	1063.0
150°	726.1	749.1	852.2	969.4	1025.3
152.5°	744.9	769.3	854.9	950.5	1002.4
155°	769.8	787.9	862.3	927.0	964.8
157.5°	800.7	811.6	863.9	916.3	943.3
160°	816.9	825.1	870.7	908.2	931.2
162.5°	826.3	835.8	872.0	901.3	919.1
165°	850.5	853.8	872.3	891.1	904.3
167.5°	867.0	864.0	880.1	888.6	893.9
170°	872.3	870.7	877.4	879.2	885.8
172.5°	884.4	878.9	881.4	876.5	881.8
175°	890.8	885.9	882.4	877.2	870.7
177.5°	893.5	885.6	881.4	876.1	877.4
180°	884.1	884.1	884.1	884.1	884.1

(END OF REPORT)