

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: P521853

Luminaire Tested: SQ4-WB-075U-125D-92765-1D-UNV-STD-W-4_5700K

Issue Date: 5-5-2021

Test Information

Test Method: LM-79-2019
Report Number: P521853
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 5-5-2021
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-WB-075U-125D-92765-1D-UNV-STD-W-4_5700K
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: 2700K-6500K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

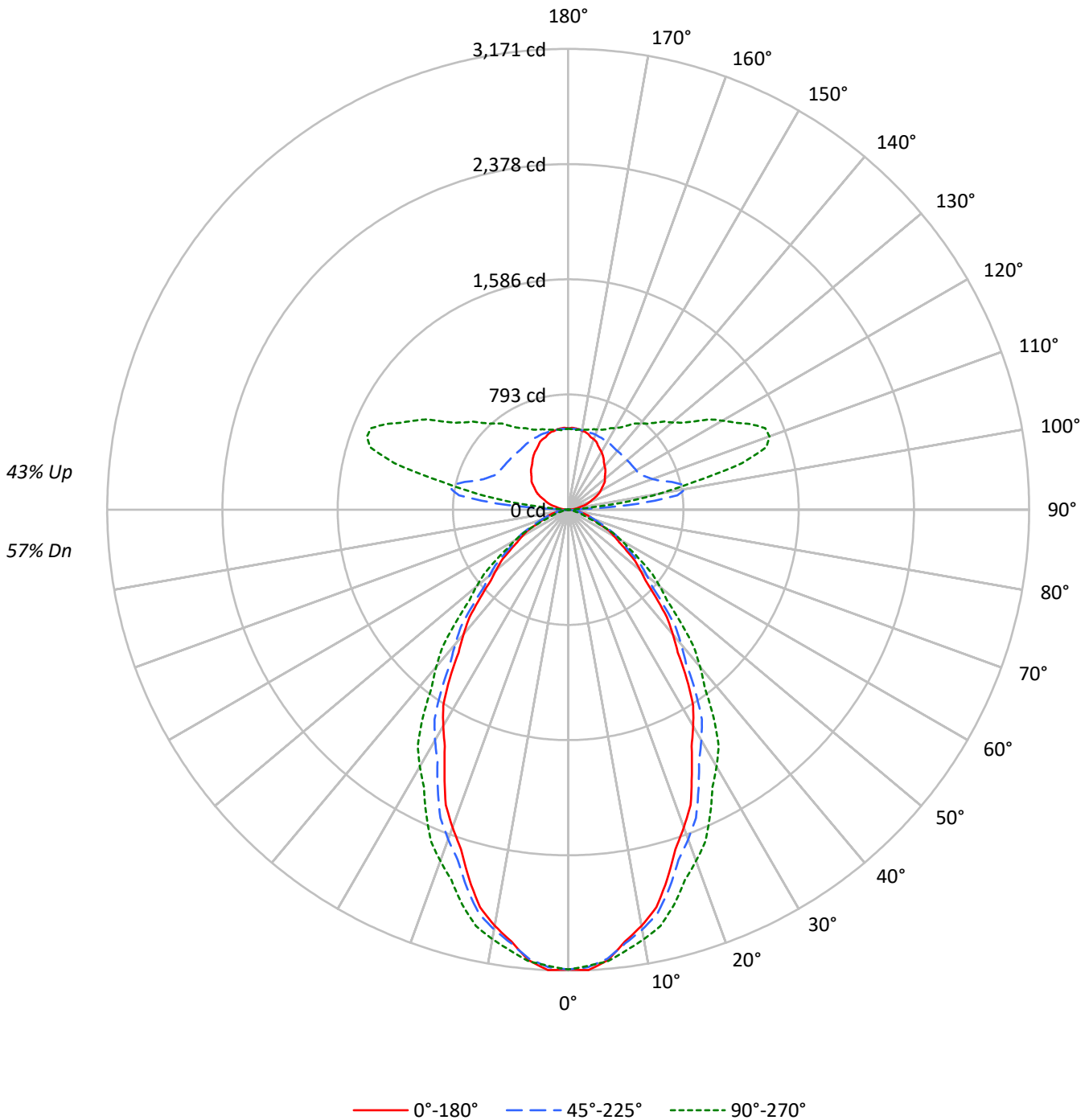
Lumens per Lamp: N/A
Luminaire Lumens: 8076.9 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 79.2
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									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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	63	63	63	57																			
1	101	97	93	90	94	90	87	85	78	76	74	67	66	65	57	56	55	51																			
2	93	86	81	76	86	81	76	72	70	67	64	61	58	56	52	50	49	45																			
3	86	77	70	65	80	72	66	62	63	59	55	55	52	49	47	45	43	39																			
4	79	69	62	56	74	65	59	54	57	52	48	50	46	43	43	41	38	35																			
5	73	62	55	49	68	59	52	47	52	47	43	46	42	39	40	37	34	32																			
6	68	57	49	44	63	54	47	42	48	42	38	42	38	35	37	34	31	28																			
7	63	52	44	39	59	49	42	37	44	38	34	39	34	31	34	31	28	26																			
8	59	47	40	35	55	45	38	34	40	35	31	36	32	28	32	28	26	24																			
9	55	44	37	32	52	41	35	31	37	32	28	33	29	26	29	26	24	22																			
10	52	40	34	29	49	38	32	28	35	29	26	31	27	24	28	24	22	20																			

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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CATALOG NUMBER: SQ4-WB-075U-125D-92765-1D-UNV-STD-W-4_5700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.2	3.6
10°-20°	754.8	9.3
20°-30°	977.7	12.1
30°-40°	957.4	11.9
40°-50°	732.8	9.1
50°-60°	488.3	6.0
60°-70°	266.5	3.3
70°-80°	111.0	1.4
80°-90°	31.4	0.4
90°-100°	254.3	3.1
100°-110°	723.6	9.0
110°-120°	693.3	8.6
120°-130°	548.7	6.8
130°-140°	440.5	5.5
140°-150°	344.8	4.3
150°-160°	252.3	3.1
160°-170°	156.3	1.9
170°-180°	53.0	0.7
0°-30°	2022.6	25.0
0°-40°	2980.0	36.9
0°-60°	4201.1	52.0
0°-90°	4610.0	57.1
90°-120°	1671.3	20.7
90°-150°	3005.3	37.2
90°-180°	3467.0	42.9
0°-180°	8076.9	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	38
90°	0	0	0	0	0	3
95°	28	110	492	170	105	32
105°	112	171	737	1303	1238	119
115°	209	253	559	1185	1391	206
125°	295	327	534	886	1059	264
135°	361	391	527	748	846	278
145°	426	447	532	648	706	266
155°	486	497	544	585	609	225
165°	537	539	551	563	571	151
175°	562	559	557	554	550	53
180°	558	558	558	558	558	

TEST NUMBER: P521853

CATALOG NUMBER: SQ4-WB-075U-125D-92765-1D-UNV-STD-W-4_5700K

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
92.5°	8.5	45.0	104.4	30.4	22.9
95°	27.6	109.5	492.3	170.4	105.0
97.5°	50.7	128.3	758.2	542.6	371.8
100°	66.8	139.5	816.0	826.5	636.6
102.5°	84.7	151.5	803.2	1057.9	892.1
105°	112.5	170.6	737.4	1302.6	1238.3
107.5°	140.7	192.8	660.6	1371.6	1428.8
110°	160.2	209.0	616.5	1345.2	1473.8

TEST NUMBER: P521853

CATALOG NUMBER: SQ4-WB-075U-125D-92765-1D-UNV-STD-W-4_5700K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	178.9	225.2	586.8	1282.8	1466.2
115°	209.0	252.6	559.2	1184.6	1391.1
117.5°	235.6	276.4	542.8	1077.3	1296.0
120°	256.8	291.0	541.1	1016.0	1225.5
122.5°	273.8	308.0	536.9	962.1	1156.8
125°	295.0	327.1	533.7	885.7	1058.9
127.5°	318.1	348.2	532.0	840.0	982.8
130°	330.0	360.1	529.5	808.2	932.7
132.5°	342.7	372.0	529.5	783.3	897.9
135°	360.8	390.9	527.4	748.1	845.7
137.5°	377.7	407.0	527.1	718.4	802.6
140°	390.5	420.6	526.3	693.7	774.6
142.5°	404.9	430.0	528.8	673.9	746.6
145°	425.5	447.3	531.6	647.5	705.6
147.5°	443.1	464.3	536.3	620.8	671.0
150°	458.4	472.9	538.0	612.0	647.3
152.5°	470.3	485.6	539.7	600.0	632.8
155°	486.0	497.4	544.3	585.2	609.1
157.5°	505.5	512.3	545.4	578.5	595.5
160°	515.7	520.9	549.6	573.3	587.8
162.5°	521.6	527.6	550.5	569.0	580.2
165°	536.9	539.0	550.7	562.6	570.9
167.5°	547.3	545.4	555.6	561.0	564.3
170°	550.7	549.7	553.9	555.0	559.2
172.5°	558.3	554.8	556.4	553.3	556.6
175°	562.4	559.3	557.1	553.8	549.6
177.5°	564.1	559.1	556.4	553.0	553.9
180°	558.1	558.1	558.1	558.1	558.1

(END OF REPORT)