

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

(formerly Eaton)

Brand: CORELITE

Report Number: P519065

Luminaire Tested: **SQ4-WB-025U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519065
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-32, G2-2009-966-13)
Test Lab: INNOVATION CENTER
Issue Date: 4/29/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-WB-025U-125D-940-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 250 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

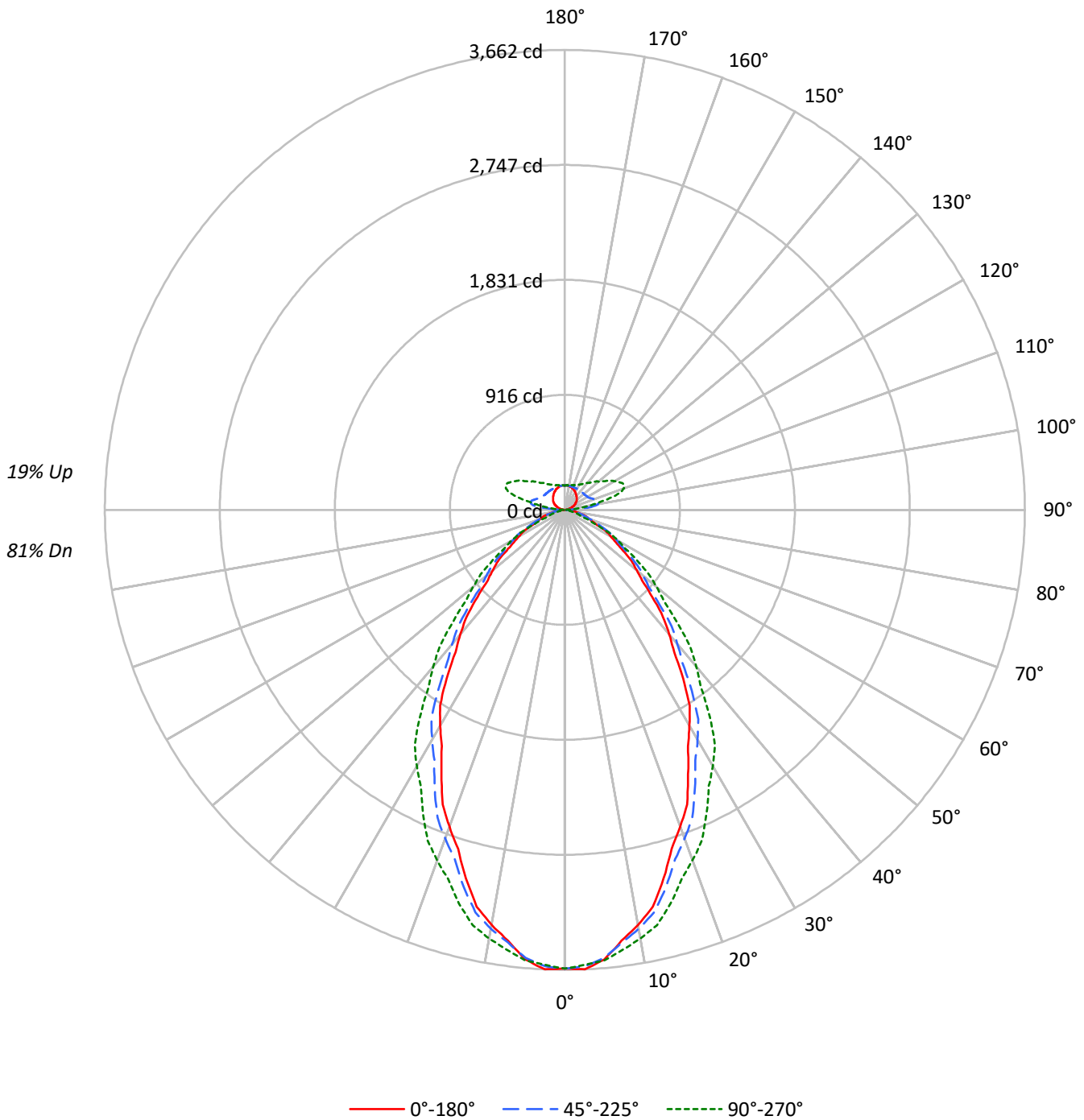
Lumens per Lamp: N/A
Luminaire Lumens: 6589.2 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 77.9
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	0	
RCR																						
0	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	81				
1	106	103	99	96	102	99	96	93	91	89	87	84	82	81	77	76	75	72				
2	99	92	86	82	94	89	84	79	82	78	75	76	73	70	71	68	66	63				
3	91	83	76	71	87	80	74	69	74	69	65	69	65	62	64	61	59	56				
4	85	75	67	62	81	72	66	60	67	62	58	63	59	55	59	55	52	50				
5	79	68	60	55	75	66	59	54	62	56	51	58	53	49	54	50	47	45				
6	73	62	54	49	70	60	53	48	56	51	46	53	48	44	50	46	43	40				
7	69	57	49	44	66	55	48	43	52	46	42	49	44	40	46	42	39	37				
8	64	52	45	40	62	51	44	39	48	42	38	46	40	37	43	39	35	34				
9	60	49	41	37	58	47	41	36	45	39	35	42	37	34	40	36	33	31				
10	57	45	38	34	55	44	37	33	42	36	32	40	35	31	38	33	30	28				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	22468	22468	22468
5°	22188	22109	22237
10°	20963	21153	21644
15°	19352	19801	20689
20°	17573	18235	19441
25°	15762	16622	18112
30°	14093	15016	16735
35°	12324	13215	15105
40°	10373	11197	13076
45°	8561	9300	10917
50°	7147	7792	9095
55°	6067	6686	7512
60°	5186	5797	5995
65°	4129	4876	3873
70°	3661	3805	2363
75°	3391	3085	1447
80°	3124	2837	1250
85°	2830	2604	1016



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.1	5.1
10°-20°	871.5	13.2
20°-30°	1128.8	17.1
30°-40°	1105.4	16.8
40°-50°	846.1	12.8
50°-60°	563.8	8.6
60°-70°	307.7	4.7
70°-80°	128.2	1.9
80°-90°	37.4	0.6
90°-100°	95.1	1.4
100°-110°	250.1	3.8
110°-120°	259.3	3.9
120°-130°	208.0	3.2
130°-140°	163.2	2.5
140°-150°	125.3	1.9
150°-160°	90.2	1.4
160°-170°	55.2	0.8
170°-180°	18.6	0.3
0°-30°	2335.4	35.4
0°-40°	3440.8	52.2
0°-60°	4850.8	73.6
0°-90°	5324.0	80.8
90°-120°	604.6	9.2
90°-150°	1101.1	16.7
90°-180°	1265.0	19.2
0°-180°	6589.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3653	3653	3653	3653	3653	
5°	3594	3558	3581	3589	3602	334
15°	3039	3028	3110	3194	3249	849
25°	2322	2329	2449	2556	2669	1068
35°	1641	1649	1760	1878	2012	1020
45°	984	1003	1069	1150	1255	767
55°	566	589	624	647	700	513
65°	284	307	335	293	266	295
75°	143	143	130	89	61	152
85°	40	40	37	24	14	44
90°	1	4	10	5	5	3
95°	12	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	201	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	196	196	19
180°	195	195	195	195	195	

TEST NUMBER: P519065

CATALOG NUMBER: SQ4-WB-025U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3652.9	3652.9	3652.9	3652.9	3652.9
2.5°	3661.9	3629.3	3637.5	3637.3	3627.3
5°	3593.6	3557.6	3580.8	3589.1	3601.6
7.5°	3460.3	3433.0	3475.3	3506.7	3532.1
10°	3356.4	3332.9	3386.8	3432.5	3465.4
12.5°	3235.9	3216.1	3283.0	3344.2	3387.2
15°	3039.0	3028.1	3109.6	3194.1	3249.0
17.5°	2828.4	2823.1	2916.6	3015.3	3085.5
20°	2684.8	2683.2	2785.8	2888.6	2970.1
22.5°	2539.9	2543.3	2651.1	2758.1	2850.9
25°	2322.5	2328.8	2449.2	2555.9	2668.8
27.5°	2121.5	2124.4	2248.8	2361.5	2481.9
30°	1984.3	1992.2	2114.2	2230.8	2356.2
32.5°	1847.1	1856.2	1975.7	2096.2	2224.1
35°	1641.3	1649.2	1759.9	1878.4	2011.6
37.5°	1429.1	1439.8	1538.1	1650.1	1781.1
40°	1291.9	1307.6	1394.5	1500.0	1628.5
42.5°	1159.8	1179.3	1259.8	1359.9	1475.9
45°	984.2	1003.0	1069.1	1150.0	1255.0
47.5°	832.8	854.5	905.3	975.0	1064.6
50°	746.9	767.3	814.3	865.9	950.5
52.5°	671.3	691.7	733.5	773.3	845.3
55°	565.8	589.3	623.5	647.2	700.5
57.5°	479.3	501.8	528.9	539.6	571.9
60°	421.6	446.6	471.2	470.0	487.3
62.5°	369.0	390.3	414.8	397.9	398.8
65°	283.7	307.2	335.0	292.7	266.1
67.5°	229.2	234.2	262.9	204.1	172.5
70°	203.6	203.6	211.6	158.1	131.4
72.5°	179.2	179.2	171.8	128.6	100.7
75°	142.7	142.7	129.8	89.1	60.9
77.5°	110.0	108.7	99.4	66.5	44.2
80°	88.2	88.2	80.1	52.5	35.3
82.5°	68.9	68.9	62.2	41.0	26.3
85°	40.1	40.1	36.9	23.8	14.4
87.5°	14.4	14.8	14.8	8.7	7.4
90°	1.3	3.7	10.0	5.0	5.0
92.5°	5.3	25.3	56.1	24.8	16.0
95°	12.5	49.2	163.9	84.5	57.6
97.5°	21.8	54.1	245.2	195.0	143.6
100°	28.8	58.1	270.3	273.9	212.7
102.5°	34.8	62.2	277.3	341.1	288.8
105°	45.0	68.3	276.5	419.8	391.6
107.5°	55.6	77.1	260.8	460.6	467.5
110°	62.6	82.1	247.7	471.1	500.5



TEST NUMBER: P519065

CATALOG NUMBER: SQ4-WB-025U-125D-940-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	69.6	88.2	235.7	464.5	509.5
115°	80.1	97.2	221.5	441.8	504.2
117.5°	90.3	106.0	211.7	410.5	479.7
120°	96.3	111.0	207.7	389.4	456.7
122.5°	102.3	117.0	204.7	368.4	434.7
125°	111.4	124.8	201.4	340.5	401.6
127.5°	118.6	132.3	198.7	318.0	369.6
130°	122.6	137.3	197.7	303.9	351.6
132.5°	126.6	141.3	196.7	291.8	334.6
135°	132.6	146.1	195.2	274.8	311.6
137.5°	138.9	152.1	194.9	262.2	292.3
140°	143.9	156.1	193.9	252.1	280.3
142.5°	147.9	159.1	193.9	245.0	269.3
145°	153.9	163.7	192.7	234.4	252.7
147.5°	159.9	169.4	192.7	225.6	240.7
150°	163.9	172.5	192.7	220.5	232.7
152.5°	167.9	174.5	192.7	216.4	225.7
155°	173.9	178.8	192.7	211.6	217.7
157.5°	178.4	183.1	192.7	207.3	211.7
160°	181.4	185.1	192.7	205.3	207.7
162.5°	184.4	187.1	192.7	203.3	205.7
165°	187.7	190.1	192.7	200.2	202.7
167.5°	190.7	191.9	193.9	199.0	199.9
170°	192.7	193.9	193.9	198.9	198.9
172.5°	193.7	193.9	193.9	197.9	196.9
175°	195.2	195.2	193.9	196.4	196.4
177.5°	195.2	195.2	194.2	196.2	195.2
180°	195.2	195.2	195.2	195.2	195.2

(END OF REPORT)