

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: P519629

Luminaire Tested: **SQ4-WB-150U-125D-840-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519629
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-150U-125D-840-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

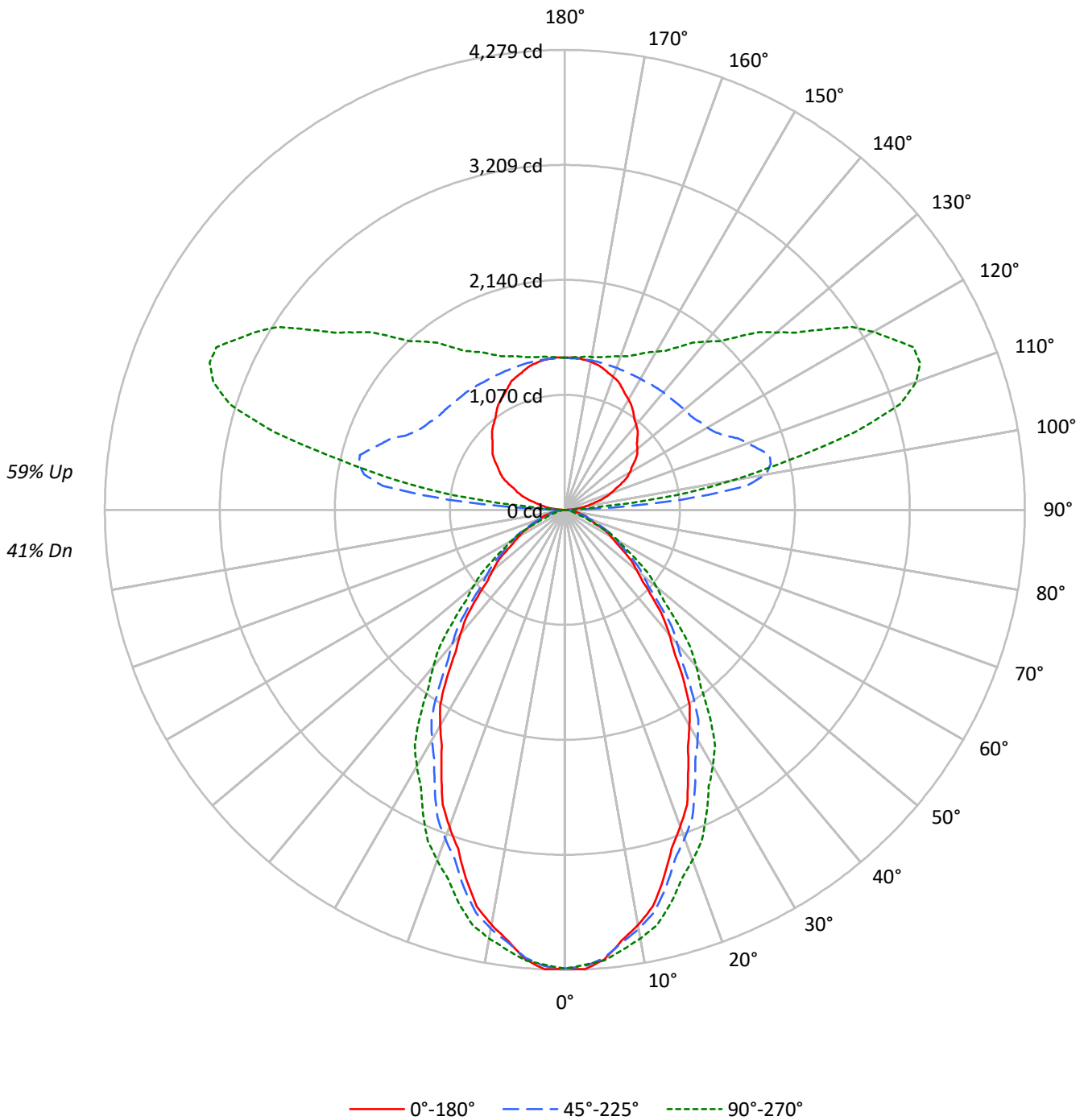
Lumens per Lamp: N/A
Luminaire Lumens: 15349.2 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 127.1
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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26252	26252	26252
5°	25925	25832	25983
10°	24493	24715	25289
15°	22611	23135	24173
20°	20533	21305	22715
25°	18417	19421	21162
30°	16467	17544	19553
35°	14400	15440	17649
40°	12120	13082	15278
45°	10002	10866	12756
50°	8351	9104	10627
55°	7089	7812	8776
60°	6059	6773	7003
65°	4825	5696	4525
70°	4277	4446	2762
75°	3962	3605	1692
80°	3648	3315	1459
85°	3303	3042	1193



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	2.6
10°-20°	1018.3	6.6
20°-30°	1318.9	8.6
30°-40°	1291.6	8.4
40°-50°	988.6	6.4
50°-60°	658.8	4.3
60°-70°	359.5	2.3
70°-80°	149.8	1.0
80°-90°	45.4	0.3
90°-100°	657.9	4.3
100°-110°	1778.8	11.6
110°-120°	1870.1	12.2
120°-130°	1519.0	9.9
130°-140°	1191.6	7.8
140°-150°	914.5	6.0
150°-160°	657.7	4.3
160°-170°	401.8	2.6
170°-180°	135.5	0.9
0°-30°	2728.7	17.8
0°-40°	4020.3	26.2
0°-60°	5667.7	36.9
0°-90°	6222.3	40.5
90°-120°	4306.8	28.1
90°-150°	7931.9	51.7
90°-180°	9127.0	59.5
0°-180°	15349.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4268	4268	4268	4268	4268	
5°	4199	4157	4184	4194	4208	391
15°	3551	3538	3633	3732	3796	992
25°	2714	2721	2862	2986	3118	1248
35°	1918	1927	2056	2195	2350	1192
45°	1150	1172	1249	1344	1466	897
55°	661	689	728	756	818	599
65°	332	359	391	342	311	345
75°	167	167	152	104	71	178
85°	47	47	43	28	17	51
90°	3	9	20	21	20	9
95°	102	358	1094	566	337	107
105°	331	511	1973	2911	2792	348
115°	582	712	1636	3168	3576	575
125°	797	913	1475	2489	2924	710
135°	955	1069	1435	2010	2275	738
145°	1111	1194	1416	1720	1851	695
155°	1254	1303	1403	1543	1594	578
165°	1365	1379	1410	1464	1472	385
175°	1417	1416	1411	1429	1426	135
180°	1416	1416	1416	1416	1416	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4268.1	4268.1	4268.1	4268.1	4268.1
2.5°	4278.6	4240.5	4250.1	4249.8	4238.1
5°	4198.8	4156.7	4183.8	4193.5	4208.2
7.5°	4043.0	4011.1	4060.6	4097.2	4126.9
10°	3921.6	3894.2	3957.2	4010.5	4049.0
12.5°	3780.8	3757.7	3835.9	3907.4	3957.6
15°	3550.8	3538.0	3633.2	3732.1	3796.1
17.5°	3304.7	3298.5	3407.7	3523.1	3605.1
20°	3136.9	3135.1	3254.9	3375.1	3470.3
22.5°	2967.6	2971.7	3097.6	3222.5	3330.9
25°	2713.7	2721.0	2861.6	2986.4	3118.2
27.5°	2478.8	2482.1	2627.5	2759.2	2899.8
30°	2318.5	2327.7	2470.2	2606.5	2753.0
32.5°	2158.2	2168.8	2308.4	2449.3	2598.7
35°	1917.7	1926.9	2056.3	2194.7	2350.4
37.5°	1669.8	1682.2	1797.1	1928.0	2081.0
40°	1509.5	1527.8	1629.3	1752.6	1902.8
42.5°	1355.2	1377.9	1472.0	1589.0	1724.5
45°	1149.9	1171.9	1249.2	1343.7	1466.4
47.5°	973.1	998.4	1057.8	1139.2	1243.9
50°	872.7	896.5	951.4	1011.7	1110.6
52.5°	784.3	808.1	857.0	903.5	987.7
55°	661.1	688.6	728.5	756.1	818.4
57.5°	560.0	586.3	618.0	630.5	668.2
60°	492.5	521.8	550.6	549.2	569.3
62.5°	431.1	456.0	484.7	464.9	466.0
65°	331.5	359.0	391.4	342.0	310.9
67.5°	267.8	273.7	307.1	238.5	201.5
70°	237.8	237.8	247.2	184.7	153.6
72.5°	209.4	209.4	200.8	150.2	117.6
75°	166.7	166.7	151.7	104.1	71.2
77.5°	128.5	127.0	116.1	77.7	51.7
80°	103.0	103.0	93.6	61.3	41.2
82.5°	80.5	80.5	72.7	47.9	30.7
85°	46.8	46.8	43.1	27.8	16.9
87.5°	17.1	18.3	18.9	13.2	11.5
90°	3.0	9.0	19.8	21.3	19.8
92.5°	43.3	157.7	311.2	135.1	97.8
95°	102.1	358.4	1094.1	566.2	336.8
97.5°	164.0	411.0	1705.4	1411.3	1036.5
100°	210.3	432.3	1895.6	1976.9	1598.4
102.5°	252.9	461.8	1962.6	2405.7	2122.6
105°	330.7	510.9	1973.3	2910.8	2791.6
107.5°	402.6	567.1	1887.1	3225.8	3265.5
110°	458.7	607.7	1810.3	3310.4	3478.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	508.6	648.1	1739.5	3293.5	3576.3
115°	582.1	711.7	1636.5	3168.1	3576.3
117.5°	654.0	775.6	1568.6	2976.4	3439.2
120°	697.9	817.1	1528.4	2838.9	3311.2
122.5°	739.3	856.1	1504.0	2691.5	3167.3
125°	796.9	913.2	1475.0	2489.1	2924.1
127.5°	850.0	964.1	1458.0	2323.9	2706.5
130°	879.2	996.9	1450.6	2221.9	2567.6
132.5°	909.7	1026.2	1443.3	2129.9	2448.1
135°	955.4	1068.6	1435.4	2009.8	2275.0
137.5°	1001.4	1108.4	1428.7	1912.4	2128.4
140°	1033.1	1132.9	1426.3	1849.7	2041.9
142.5°	1063.6	1157.5	1421.4	1793.1	1961.4
145°	1110.8	1194.3	1415.6	1720.3	1851.4
147.5°	1153.8	1227.7	1408.9	1654.4	1755.1
150°	1185.5	1251.1	1406.5	1618.6	1699.0
152.5°	1214.8	1272.0	1405.2	1585.3	1651.5
155°	1254.1	1303.2	1403.4	1543.2	1593.9
157.5°	1294.9	1329.2	1403.7	1513.9	1547.2
160°	1318.1	1346.4	1404.9	1495.4	1519.2
162.5°	1336.4	1359.9	1406.1	1480.6	1498.5
165°	1365.3	1378.7	1409.5	1464.5	1472.0
167.5°	1385.1	1394.4	1409.8	1450.7	1454.3
170°	1397.3	1401.8	1411.0	1444.5	1444.5
172.5°	1407.1	1408.0	1411.0	1437.2	1436.0
175°	1417.1	1415.6	1411.0	1429.2	1426.3
177.5°	1420.5	1416.9	1410.7	1422.8	1419.3
180°	1415.6	1415.6	1415.6	1415.6	1415.6

(END OF REPORT)