

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: P519641

Luminaire Tested: **SQ4-WB-150U-125D-940-1D-UNV-STD-W-6**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519641
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-940-1D-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, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

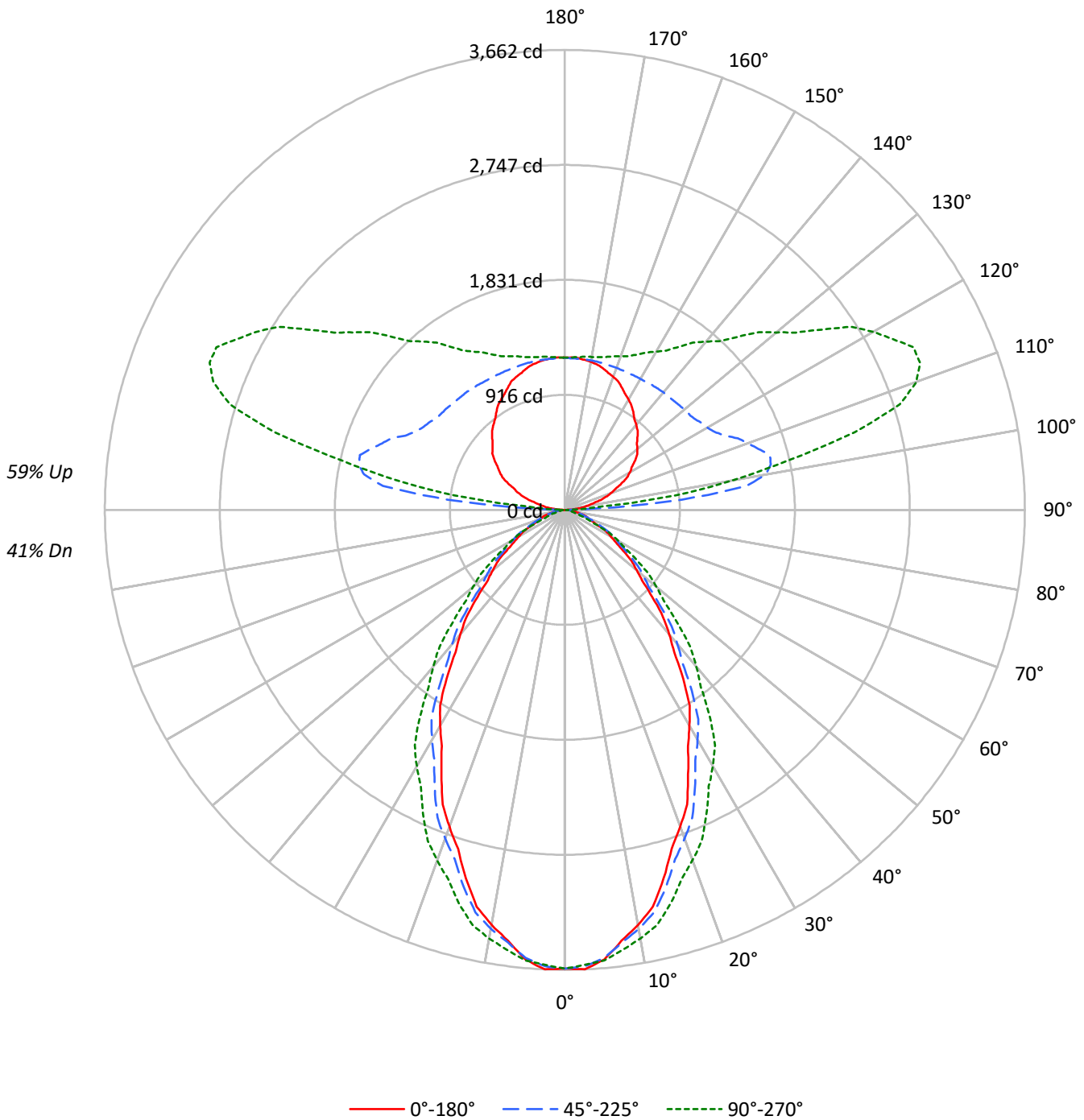
Lumens per Lamp: N/A
Luminaire Lumens: 13136.9 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

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	50	30	10	0	
RCR																						
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41				41
1	97	93	89	86	88	85	82	79	70	68	66	56	55	53	43	43	42	36				36
2	89	82	76	72	81	75	70	66	62	59	56	50	48	46	39	38	37	32				32
3	82	73	66	61	74	67	61	57	56	52	48	45	43	40	36	34	32	28				28
4	75	65	58	52	68	60	54	49	50	46	42	41	38	35	33	31	29	25				25
5	69	59	51	46	63	54	48	43	45	41	37	37	34	31	30	28	26	22				22
6	64	53	45	40	59	49	42	38	41	36	33	34	31	28	28	25	23	20				20
7	59	48	41	35	54	45	38	33	38	33	29	31	28	25	25	23	21	18				18
8	55	44	37	32	51	41	34	30	35	30	26	29	25	23	24	21	19	17				17
9	52	40	33	28	47	37	31	27	32	27	24	27	23	21	22	19	18	15				15
10	48	37	30	26	44	34	28	24	30	25	22	25	21	19	21	18	16	14				14

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	2.6
10°-20°	871.5	6.6
20°-30°	1128.8	8.6
30°-40°	1105.4	8.4
40°-50°	846.1	6.4
50°-60°	563.8	4.3
60°-70°	307.7	2.3
70°-80°	128.2	1.0
80°-90°	38.8	0.3
90°-100°	563.1	4.3
100°-110°	1522.4	11.6
110°-120°	1600.6	12.2
120°-130°	1300.1	9.9
130°-140°	1019.8	7.8
140°-150°	782.7	6.0
150°-160°	562.9	4.3
160°-170°	343.9	2.6
170°-180°	115.9	0.9
0°-30°	2335.4	17.8
0°-40°	3440.8	26.2
0°-60°	4850.8	36.9
0°-90°	5325.5	40.5
90°-120°	3686.0	28.1
90°-150°	6788.7	51.7
90°-180°	7811.0	59.5
0°-180°	13136.9	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°	3	8	17	18	17	8
95°	87	307	936	485	288	91
105°	283	437	1689	2491	2389	298
115°	498	609	1401	2712	3061	492
125°	682	782	1262	2130	2503	608
135°	818	915	1228	1720	1947	632
145°	951	1022	1212	1472	1585	595
155°	1073	1115	1201	1321	1364	495
165°	1168	1180	1206	1253	1260	329
175°	1213	1212	1208	1223	1221	115
180°	1212	1212	1212	1212	1212	

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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°	14.6	15.6	16.2	11.3	9.8
90°	2.6	7.7	17.0	18.2	17.0
92.5°	37.0	135.0	266.3	115.6	83.7
95°	87.4	306.7	936.4	484.6	288.2
97.5°	140.3	351.8	1459.6	1207.9	887.1
100°	180.0	370.0	1622.4	1692.0	1368.1
102.5°	216.5	395.3	1679.8	2059.0	1816.7
105°	283.0	437.3	1688.9	2491.2	2389.2
107.5°	344.6	485.3	1615.1	2760.9	2794.8
110°	392.6	520.1	1549.3	2833.3	2977.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	435.3	554.7	1488.8	2818.8	3060.9
115°	498.2	609.1	1400.7	2711.5	3060.9
117.5°	559.7	663.8	1342.5	2547.4	2943.5
120°	597.3	699.3	1308.1	2429.7	2833.9
122.5°	632.8	732.8	1287.2	2303.5	2710.8
125°	682.1	781.5	1262.4	2130.3	2502.7
127.5°	727.5	825.1	1247.8	1989.0	2316.4
130°	752.5	853.2	1241.6	1901.7	2197.5
132.5°	778.6	878.3	1235.3	1822.9	2095.3
135°	817.7	914.6	1228.5	1720.1	1947.1
137.5°	857.1	948.6	1222.8	1636.7	1821.6
140°	884.2	969.7	1220.7	1583.1	1747.6
142.5°	910.3	990.6	1216.5	1534.6	1678.7
145°	950.7	1022.1	1211.6	1472.3	1584.6
147.5°	987.5	1050.8	1205.8	1415.9	1502.1
150°	1014.6	1070.7	1203.7	1385.3	1454.1
152.5°	1039.7	1088.6	1202.7	1356.8	1413.4
155°	1073.3	1115.4	1201.1	1320.8	1364.1
157.5°	1108.3	1137.6	1201.4	1295.7	1324.2
160°	1128.1	1152.3	1202.4	1279.8	1300.2
162.5°	1143.7	1163.9	1203.5	1267.2	1282.5
165°	1168.5	1180.0	1206.3	1253.4	1259.8
167.5°	1185.5	1193.4	1206.6	1241.6	1244.7
170°	1195.9	1199.7	1207.6	1236.3	1236.3
172.5°	1204.3	1205.0	1207.6	1230.1	1229.0
175°	1212.9	1211.6	1207.6	1223.2	1220.7
177.5°	1215.7	1212.7	1207.4	1217.8	1214.7
180°	1211.6	1211.6	1211.6	1211.6	1211.6

(END OF REPORT)