

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: P519426

Luminaire Tested: **SQ4-WB-100U-100D-940-1D-UNV-STD-W-8**

Issue Date: 4/29/2021

Test Information

Test Method: LM-79-2019
Report Number: P519426
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, 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-100U-100D-940-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH WHITE BAFFLE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

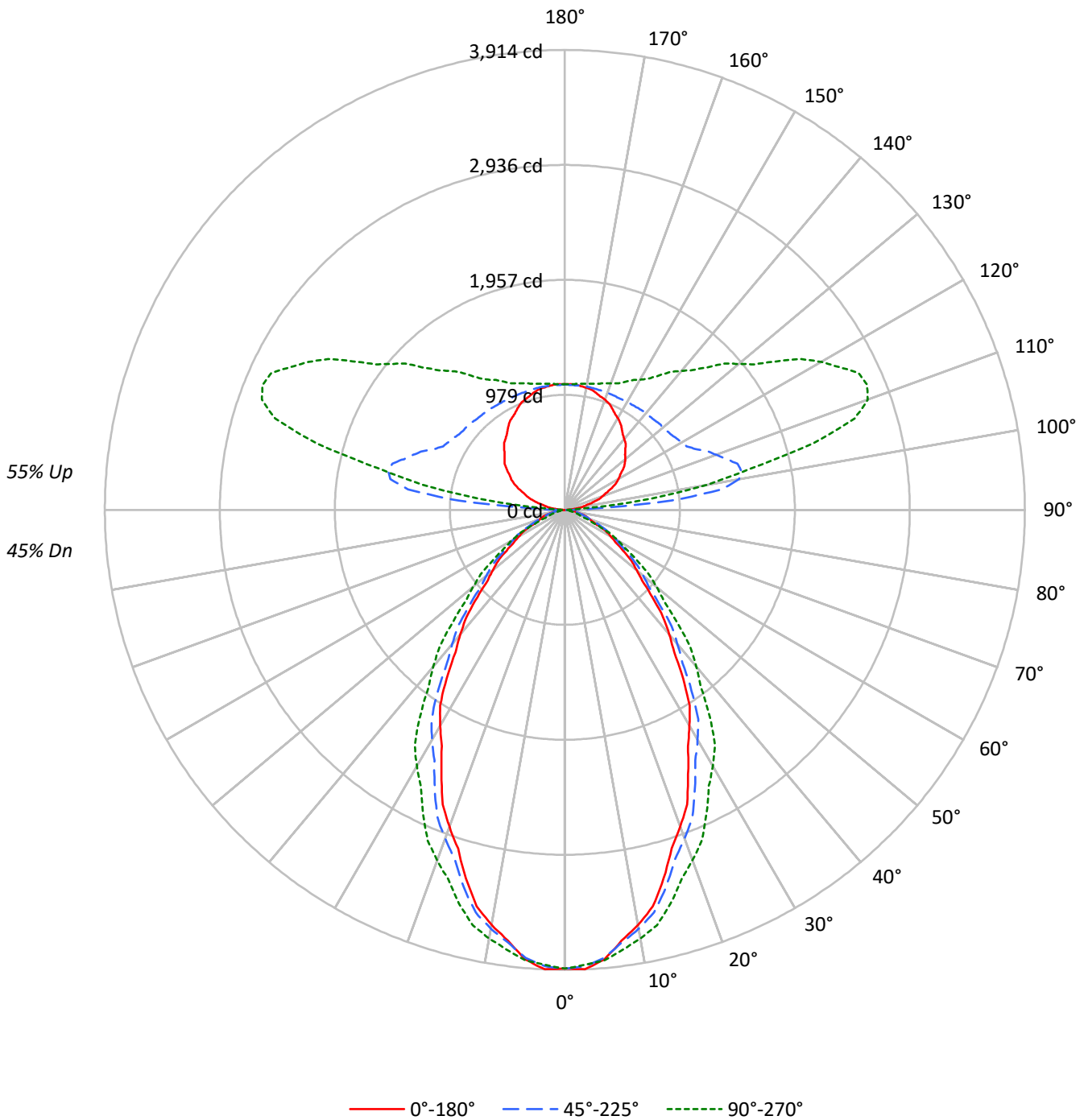
Lumens per Lamp: N/A
Luminaire Lumens: 12635.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 8' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 121.2
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				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	106	106	106	106	97	97	97	97	81	81	81	65	65	65	52	52	52	45
1	98	94	90	87	89	86	83	81	72	70	68	59	58	56	47	46	46	40
2	90	83	78	73	82	77	72	68	64	61	58	53	51	49	43	41	40	35
3	83	74	67	62	76	68	63	58	58	54	50	48	45	43	39	37	35	31
4	76	66	59	54	70	61	55	50	52	47	44	44	40	37	36	33	31	28
5	70	60	52	47	65	55	49	44	47	42	39	40	36	33	33	30	28	25
6	65	54	46	41	60	50	44	39	43	38	34	36	33	30	30	27	25	22
7	61	49	42	36	56	46	39	34	39	34	31	33	30	27	28	25	23	20
8	56	45	38	33	52	42	35	31	36	31	28	31	27	24	26	23	21	19
9	53	41	34	29	49	39	32	28	33	28	25	29	25	22	24	21	19	17
10	49	38	31	27	46	36	29	25	31	26	23	27	23	20	22	20	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	18010	18010	18010
5°	17785	17722	17825
10°	16803	16956	17349
15°	15512	15872	16584
20°	14086	14616	15583
25°	12634	13324	14518
30°	11297	12036	13414
35°	9879	10592	12107
40°	8315	8975	10481
45°	6862	7454	8751
50°	5729	6245	7290
55°	4863	5360	6021
60°	4156	4646	4805
65°	3310	3908	3104
70°	2935	3050	1895
75°	2718	2474	1160
80°	2502	2277	1002
85°	2265	2085	815



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.1	2.8
10°-20°	931.4	7.4
20°-30°	1206.5	9.5
30°-40°	1181.4	9.4
40°-50°	904.3	7.2
50°-60°	602.6	4.8
60°-70°	328.8	2.6
70°-80°	137.0	1.1
80°-90°	41.0	0.3
90°-100°	500.5	4.0
100°-110°	1381.7	10.9
110°-120°	1425.0	11.3
120°-130°	1145.1	9.1
130°-140°	899.9	7.1
140°-150°	690.2	5.5
150°-160°	496.0	3.9
160°-170°	303.4	2.4
170°-180°	102.3	0.8
0°-30°	2496.0	19.8
0°-40°	3677.4	29.1
0°-60°	5184.3	41.0
0°-90°	5691.1	45.0
90°-120°	3307.2	26.2
90°-150°	6042.4	47.8
90°-180°	6944.0	55.0
0°-180°	12635.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3904	3904	3904	3904	3904	
5°	3841	3802	3827	3836	3849	357
15°	3248	3236	3323	3414	3472	907
25°	2482	2489	2618	2732	2852	1142
35°	1754	1763	1881	2008	2150	1091
45°	1052	1072	1143	1229	1341	820
55°	605	630	666	692	749	548
65°	303	328	358	313	284	315
75°	152	152	139	95	65	163
85°	43	43	39	26	15	47
90°	3	7	14	15	17	7
95°	74	271	908	373	243	79
105°	246	380	1520	2321	2185	262
115°	441	533	1224	2424	2756	434
125°	605	689	1110	1878	2204	539
135°	728	807	1079	1521	1715	564
145°	845	903	1065	1295	1394	529
155°	952	984	1057	1162	1199	439
165°	1031	1044	1062	1103	1112	291
175°	1069	1070	1064	1079	1076	102
180°	1069	1069	1069	1069	1069	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3904.1	3904.1	3904.1	3904.1	3904.1
2.5°	3913.7	3878.8	3887.6	3887.4	3876.7
5°	3840.7	3802.2	3827.0	3835.9	3849.3
7.5°	3698.2	3669.0	3714.3	3747.8	3774.9
10°	3587.2	3562.0	3619.7	3668.5	3703.6
12.5°	3458.3	3437.2	3508.7	3574.2	3620.1
15°	3248.0	3236.2	3323.3	3413.8	3472.4
17.5°	3022.9	3017.2	3117.1	3222.6	3297.7
20°	2869.4	2867.7	2977.3	3087.2	3174.3
22.5°	2714.5	2718.2	2833.4	2947.7	3046.9
25°	2482.2	2488.9	2617.6	2731.7	2852.3
27.5°	2267.4	2270.4	2403.4	2523.9	2652.5
30°	2120.8	2129.2	2259.5	2384.2	2518.2
32.5°	1974.1	1983.9	2111.5	2240.4	2377.1
35°	1754.2	1762.6	1880.9	2007.5	2149.9
37.5°	1527.4	1538.8	1643.9	1763.5	1903.6
40°	1380.7	1397.5	1490.4	1603.1	1740.5
42.5°	1239.6	1260.3	1346.5	1453.4	1577.4
45°	1051.8	1071.9	1142.6	1229.1	1341.3
47.5°	890.1	913.2	967.5	1042.0	1137.8
50°	798.3	820.1	870.2	925.4	1015.8
52.5°	717.4	739.2	783.9	826.4	903.5
55°	604.7	629.8	666.4	691.7	748.6
57.5°	512.2	536.3	565.3	576.7	611.2
60°	450.5	477.3	503.6	502.3	520.8
62.5°	394.3	417.1	443.3	425.2	426.2
65°	303.2	328.3	358.0	312.8	284.4
67.5°	245.0	250.3	280.9	218.2	184.3
70°	217.6	217.6	226.1	168.9	140.5
72.5°	191.5	191.5	183.6	137.4	107.6
75°	152.5	152.5	138.8	95.2	65.1
77.5°	117.5	116.2	106.2	71.1	47.3
80°	94.2	94.2	85.7	56.1	37.7
82.5°	73.7	73.7	66.5	43.8	28.1
85°	42.8	42.8	39.4	25.5	15.4
87.5°	15.8	16.4	16.4	11.3	10.3
90°	3.4	6.8	13.7	15.4	17.1
92.5°	30.8	127.8	228.5	83.4	65.0
95°	73.5	270.8	908.0	373.2	242.8
97.5°	121.7	303.3	1345.1	1035.6	750.0
100°	157.3	322.8	1506.5	1517.1	1232.9
102.5°	191.5	345.0	1537.9	1874.5	1605.0
105°	246.2	380.0	1520.2	2320.8	2185.3
107.5°	304.4	423.4	1435.3	2536.0	2585.5
110°	345.4	452.4	1369.7	2582.3	2742.8

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	382.3	485.3	1308.1	2545.7	2782.5
115°	441.2	533.1	1224.3	2423.8	2756.5
117.5°	492.5	584.1	1169.3	2252.1	2630.6
120°	526.7	617.0	1147.4	2135.9	2517.1
122.5°	559.5	645.8	1129.6	2027.3	2388.5
125°	605.3	688.9	1109.8	1878.1	2204.2
127.5°	644.3	727.9	1098.1	1751.9	2033.2
130°	670.3	753.9	1092.7	1674.7	1930.6
132.5°	694.9	774.5	1087.2	1609.9	1841.6
135°	728.4	807.0	1079.0	1521.2	1715.1
137.5°	766.1	837.6	1074.9	1446.6	1612.2
140°	786.6	856.8	1072.2	1396.9	1542.4
142.5°	809.8	874.7	1069.4	1352.8	1480.8
145°	844.7	903.2	1065.3	1295.0	1393.6
147.5°	878.2	929.4	1061.5	1246.3	1322.8
150°	902.9	944.7	1060.2	1217.2	1279.1
152.5°	922.0	961.1	1058.8	1192.3	1243.5
155°	952.5	984.2	1056.8	1161.9	1198.7
157.5°	980.5	1004.9	1057.1	1139.8	1164.8
160°	996.9	1018.6	1058.5	1127.3	1145.7
162.5°	1010.6	1029.7	1059.8	1116.3	1130.6
165°	1031.1	1044.5	1061.9	1103.1	1111.5
167.5°	1046.8	1054.9	1063.6	1095.1	1097.8
170°	1055.1	1061.7	1063.6	1091.0	1091.0
172.5°	1061.9	1065.9	1063.6	1085.5	1084.1
175°	1068.7	1070.4	1063.6	1078.9	1075.6
177.5°	1071.5	1070.1	1063.3	1072.8	1070.1
180°	1068.7	1068.7	1068.7	1068.7	1068.7

(END OF REPORT)