

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: P562433

Luminaire Tested: **SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (5700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562433
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (5700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1250 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 5700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

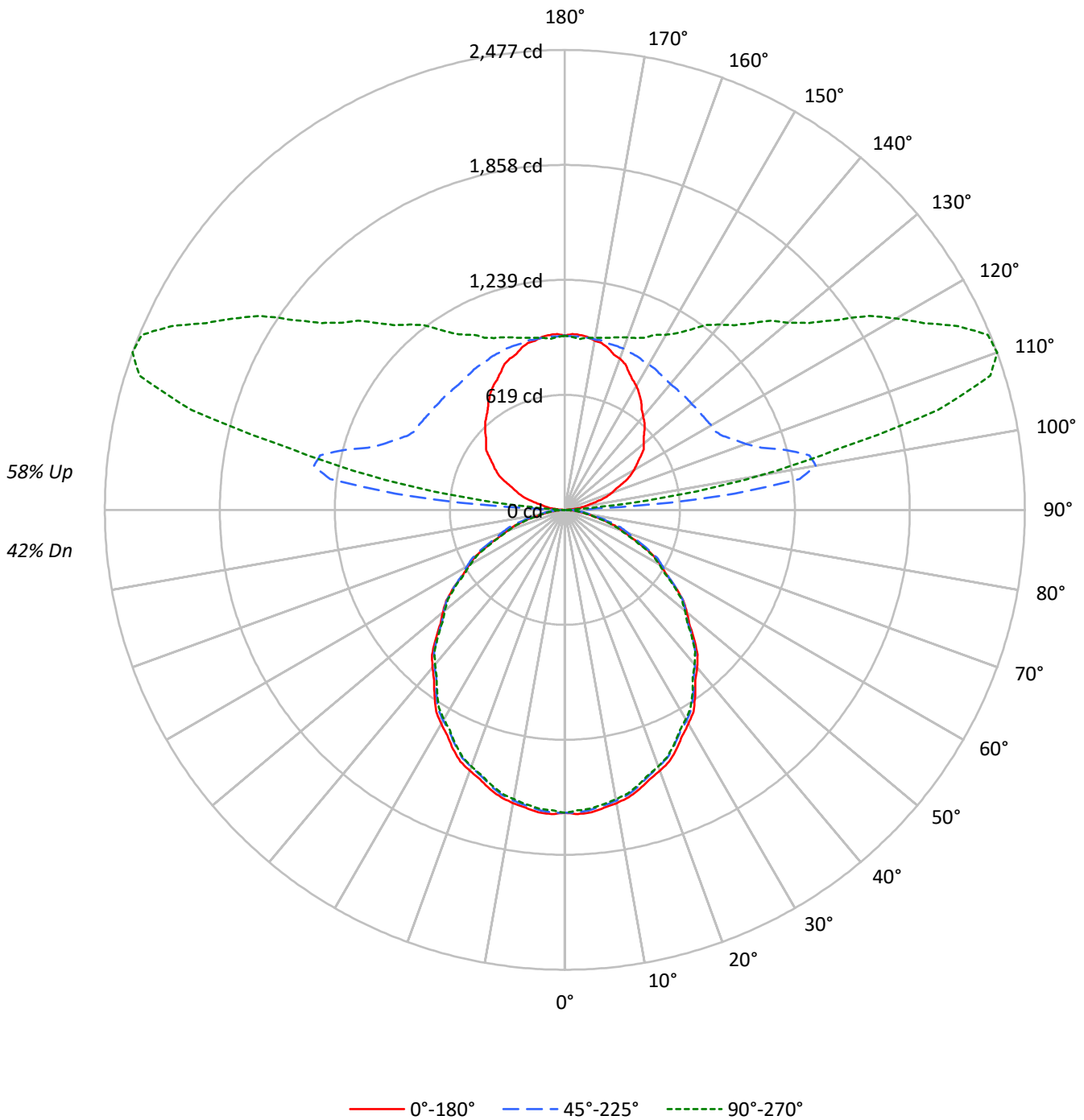
Lumens per Lamp: N/A
Luminaire Lumens: 9977.1 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.7
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	79	79	79	63	63	63	48	48	48	42
1	96	92	88	85	87	84	81	78	69	67	65	55	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	63	58	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	55	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	56	48	42	61	51	44	39	42	37	33	34	31	28	27	24	22	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	16
7	57	45	37	32	52	41	34	29	35	29	25	28	24	21	22	20	17	15
8	53	41	33	28	48	38	31	26	31	26	22	26	22	19	21	18	16	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	15	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15049	15049	15049
5°	15146	15026	14960
10°	15025	14903	14823
15°	14865	14701	14646
20°	14688	14462	14434
25°	14483	14219	14176
30°	14177	13962	13871
35°	13774	13580	13499
40°	13345	13136	13085
45°	12826	12656	12600
50°	12294	12190	12109
55°	11720	11720	11535
60°	11005	11217	10819
65°	10071	10573	9820
70°	8878	9730	8646
75°	7582	8709	7375
80°	5882	7332	5956
85°	3800	5632	5018



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.6	1.5
10°-20°	433.6	4.3
20°-30°	643.2	6.4
30°-40°	752.6	7.5
40°-50°	749.3	7.5
50°-60°	647.0	6.5
60°-70°	465.7	4.7
70°-80°	244.2	2.4
80°-90°	60.6	0.6
90°-100°	427.5	4.3
100°-110°	1216.3	12.2
110°-120°	1165.4	11.7
120°-130°	922.3	9.2
130°-140°	740.3	7.4
140°-150°	579.6	5.8
150°-160°	424.1	4.3
160°-170°	262.7	2.6
170°-180°	89.1	0.9
0°-30°	1230.4	12.3
0°-40°	1983.1	19.9
0°-60°	3379.3	33.9
0°-90°	4149.9	41.6
90°-120°	2809.1	28.2
90°-150°	5051.4	50.6
90°-180°	5827.0	58.4
0°-180°	9977.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1635	1617	1622	1618	1615	155
15°	1556	1537	1539	1536	1533	439
25°	1423	1399	1397	1388	1392	654
35°	1223	1206	1206	1194	1198	764
45°	983	974	970	967	966	758
55°	729	727	729	718	717	650
65°	461	475	484	465	450	457
75°	213	232	244	228	207	228
85°	36	47	53	50	47	47
90°	0	0	0	0	0	3
95°	46	184	828	286	177	53
105°	189	287	1240	2189	2081	200
115°	351	425	940	1991	2338	346
125°	496	550	897	1489	1780	444
135°	606	657	886	1258	1421	468
145°	715	752	894	1088	1186	447
155°	817	836	915	984	1024	378
165°	902	906	926	946	960	254
175°	945	940	936	931	924	90
180°	938	938	938	938	938	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	1640.3	1626.8	1631.1	1627.4	1619.6
5°	1635.4	1617.1	1622.4	1618.1	1615.3
7.5°	1618.7	1601.8	1605.8	1601.1	1599.5
10°	1603.8	1586.9	1590.8	1585.0	1582.2
12.5°	1586.5	1568.5	1572.4	1566.7	1565.0
15°	1556.3	1536.7	1539.1	1536.2	1533.3
17.5°	1521.3	1501.3	1501.7	1497.1	1496.6
20°	1496.0	1474.9	1473.0	1467.3	1470.1
22.5°	1468.4	1446.2	1444.3	1436.3	1440.2
25°	1422.7	1398.8	1396.8	1388.3	1392.5
27.5°	1369.8	1346.2	1346.2	1334.3	1338.8
30°	1330.7	1308.2	1310.6	1296.4	1302.0
32.5°	1289.3	1269.1	1270.4	1256.1	1261.7
35°	1222.9	1206.1	1205.7	1194.3	1198.5
37.5°	1155.1	1140.2	1137.9	1131.3	1132.4
40°	1108.0	1095.3	1090.7	1086.4	1086.4
42.5°	1058.5	1047.0	1042.4	1039.3	1038.1
45°	983.0	974.5	970.0	967.1	965.7
47.5°	908.2	900.4	896.4	894.4	893.0
50°	856.5	850.9	849.3	845.0	843.6
52.5°	804.8	801.4	799.9	794.4	793.0
55°	728.6	727.2	728.6	718.5	717.1
57.5°	649.3	651.5	656.2	642.6	639.2
60°	596.4	602.0	607.9	591.9	586.3
62.5°	542.3	551.3	559.6	541.3	533.4
65°	461.3	475.3	484.3	465.3	449.8
67.5°	383.1	400.5	411.3	390.8	373.3
70°	329.1	348.8	360.7	340.1	320.5
72.5°	282.0	303.9	313.6	294.2	274.5
75°	212.7	232.4	244.3	228.0	206.9
77.5°	150.9	169.4	179.3	165.2	147.7
80°	110.7	130.3	138.0	126.1	112.1
82.5°	78.5	94.8	100.0	92.9	83.3
85°	35.9	47.2	53.2	50.2	47.4
87.5°	9.2	17.1	21.8	21.9	23.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	14.3	75.7	175.5	51.1	38.5
95°	46.4	184.1	827.5	286.4	176.6
97.5°	85.2	215.7	1274.5	912.0	624.9
100°	112.4	234.4	1371.5	1389.2	1070.1
102.5°	142.3	254.6	1350.1	1778.2	1499.5
105°	189.0	286.7	1239.5	2189.4	2081.3
107.5°	236.5	324.0	1110.4	2305.4	2401.6
110°	269.3	351.3	1036.2	2261.0	2477.2

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	300.7	378.5	986.3	2156.1	2464.4
115°	351.3	424.6	939.9	1991.1	2338.1
117.5°	395.9	464.6	912.4	1810.7	2178.3
120°	431.6	489.1	909.6	1707.7	2059.9
122.5°	460.1	517.7	902.4	1617.2	1944.3
125°	495.8	549.9	897.1	1488.7	1779.9
127.5°	534.7	585.3	894.2	1411.9	1651.8
130°	554.7	605.2	890.0	1358.4	1567.7
132.5°	576.1	625.2	890.0	1316.7	1509.2
135°	606.4	657.0	886.4	1257.5	1421.4
137.5°	634.9	684.1	886.0	1207.4	1349.0
140°	656.3	706.9	884.6	1165.9	1301.9
142.5°	680.6	722.8	888.9	1132.8	1254.8
145°	715.2	751.8	893.5	1088.4	1186.0
147.5°	744.8	780.4	901.4	1043.5	1127.9
150°	770.5	794.9	904.2	1028.6	1087.9
152.5°	790.4	816.2	907.1	1008.6	1063.7
155°	816.8	836.0	914.9	983.6	1023.7
157.5°	849.6	861.2	916.7	972.3	1000.9
160°	866.8	875.5	923.8	963.6	988.0
162.5°	876.8	886.9	925.3	956.4	975.2
165°	902.4	905.9	925.6	945.6	959.5
167.5°	919.9	916.8	933.8	942.9	948.4
170°	925.6	923.9	931.0	932.9	939.9
172.5°	938.5	932.5	935.3	930.0	935.6
175°	945.2	940.0	936.3	930.8	923.8
177.5°	948.1	939.7	935.3	929.6	931.0
180°	938.1	938.1	938.1	938.1	938.1

(END OF REPORT)