

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: P562427

Luminaire Tested: **SQ4-PW1-125U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562427
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 (2700K)
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 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

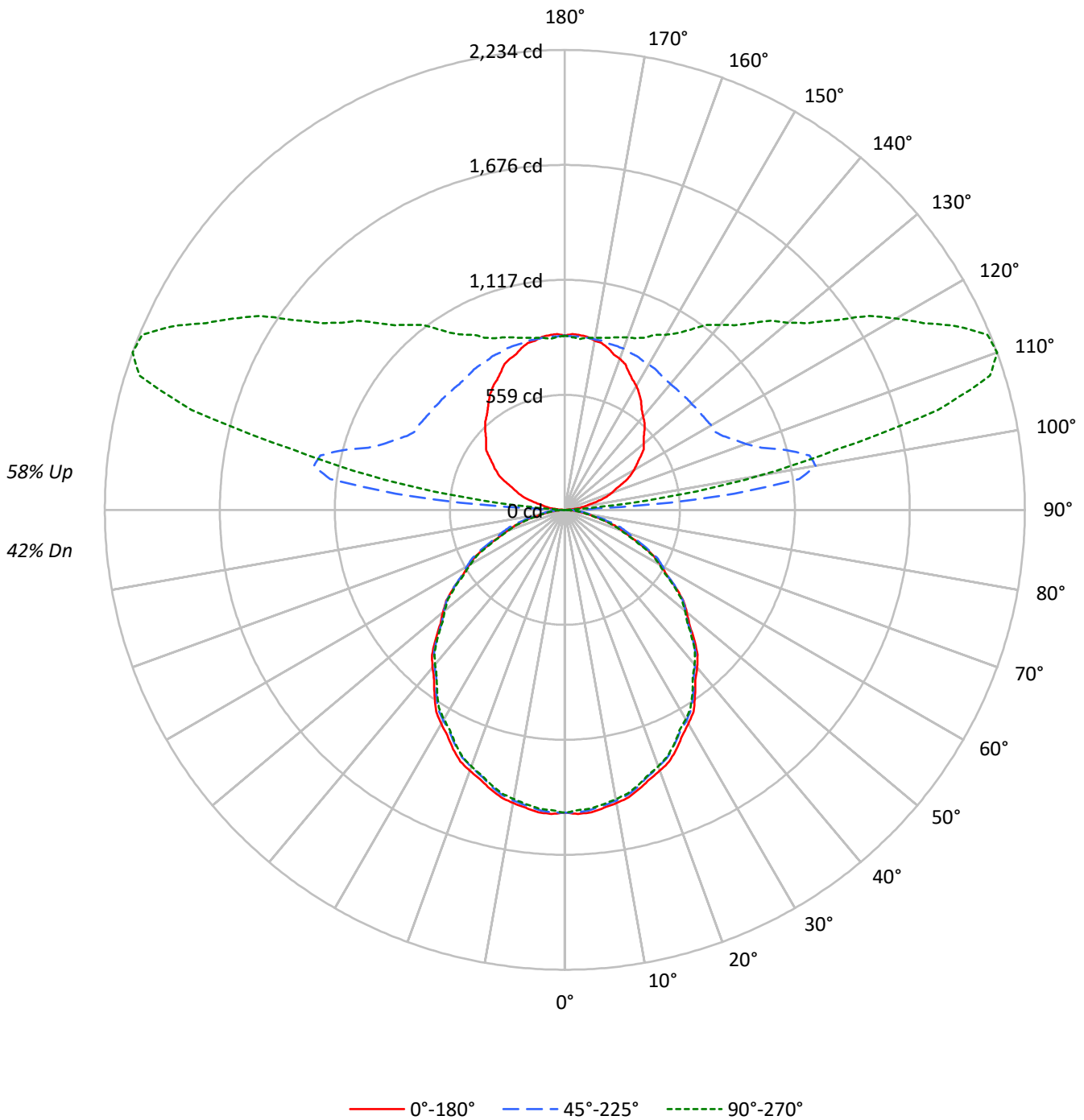
Lumens per Lamp: N/A
Luminaire Lumens: 8996.1 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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°	13569	13569	13569
5°	13657	13549	13488
10°	13548	13438	13365
15°	13404	13256	13206
20°	13244	13041	13015
25°	13059	12822	12782
30°	12783	12589	12507
35°	12420	12244	12172
40°	12032	11845	11798
45°	11564	11412	11362
50°	11085	10992	10917
55°	10568	10568	10401
60°	9922	10114	9756
65°	9080	9534	8855
70°	8004	8772	7796
75°	6837	7853	6652
80°	5303	6610	5372
85°	3430	5071	4531



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	138.5	1.5
10°-20°	391.0	4.3
20°-30°	580.0	6.4
30°-40°	678.6	7.5
40°-50°	675.6	7.5
50°-60°	583.4	6.5
60°-70°	419.9	4.7
70°-80°	220.2	2.4
80°-90°	54.6	0.6
90°-100°	385.4	4.3
100°-110°	1096.7	12.2
110°-120°	1050.8	11.7
120°-130°	831.6	9.2
130°-140°	667.5	7.4
140°-150°	522.6	5.8
150°-160°	382.4	4.3
160°-170°	236.8	2.6
170°-180°	80.4	0.9
0°-30°	1109.5	12.3
0°-40°	1788.1	19.9
0°-60°	3047.1	33.9
0°-90°	3741.8	41.6
90°-120°	2532.9	28.2
90°-150°	4554.7	50.6
90°-180°	5254.0	58.4
0°-180°	8996.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1471	1471	1471	1471	1471	
5°	1475	1458	1463	1459	1456	140
15°	1403	1386	1388	1385	1383	396
25°	1283	1261	1260	1252	1256	590
35°	1103	1088	1087	1077	1081	689
45°	886	879	875	872	871	684
55°	657	656	657	648	647	586
65°	416	429	437	420	406	412
75°	192	210	220	206	187	206
85°	32	42	48	45	43	43
90°	0	0	0	0	0	3
95°	42	166	746	258	159	48
105°	170	258	1118	1974	1877	180
115°	317	383	848	1795	2108	312
125°	447	496	809	1342	1605	400
135°	547	592	799	1134	1282	422
145°	645	678	806	981	1069	403
155°	736	754	825	887	923	340
165°	814	817	835	853	865	229
175°	852	848	844	839	833	81
180°	846	846	846	846	846	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1470.7	1470.7	1470.7	1470.7	1470.7
2.5°	1479.0	1466.8	1470.7	1467.4	1460.3
5°	1474.6	1458.1	1462.9	1459.0	1456.4
7.5°	1459.5	1444.3	1447.9	1443.7	1442.2
10°	1446.1	1430.9	1434.4	1429.2	1426.6
12.5°	1430.5	1414.3	1417.8	1412.6	1411.1
15°	1403.3	1385.6	1387.8	1385.1	1382.6
17.5°	1371.7	1353.7	1354.1	1349.9	1349.4
20°	1348.9	1329.9	1328.2	1323.0	1325.6
22.5°	1324.0	1304.0	1302.2	1295.1	1298.6
25°	1282.8	1261.3	1259.5	1251.8	1255.6
27.5°	1235.1	1213.8	1213.9	1203.1	1207.1
30°	1199.9	1179.6	1181.7	1168.9	1174.0
32.5°	1162.6	1144.3	1145.5	1132.6	1137.7
35°	1102.7	1087.5	1087.1	1076.9	1080.7
37.5°	1041.5	1028.1	1026.0	1020.0	1021.1
40°	999.0	987.6	983.5	979.6	979.6
42.5°	954.5	944.1	939.9	937.1	936.1
45°	886.3	878.7	874.6	872.0	870.8
47.5°	818.9	811.8	808.3	806.5	805.2
50°	772.3	767.2	765.8	761.9	760.6
52.5°	725.6	722.6	721.2	716.3	715.0
55°	657.0	655.7	657.0	647.9	646.6
57.5°	585.4	587.5	591.6	579.4	576.4
60°	537.7	542.8	548.1	533.7	528.7
62.5°	489.0	497.1	504.6	488.1	481.0
65°	415.9	428.6	436.7	419.5	405.6
67.5°	345.5	361.2	370.8	352.3	336.6
70°	296.7	314.5	325.2	306.7	289.0
72.5°	254.2	274.0	282.7	265.2	247.5
75°	191.8	209.5	220.3	205.6	186.6
77.5°	136.1	152.8	161.7	148.9	133.2
80°	99.8	117.5	124.4	113.7	101.1
82.5°	70.7	85.4	90.2	83.8	75.2
85°	32.4	42.5	47.9	45.3	42.8
87.5°	8.3	15.4	19.7	19.7	20.7
90°	0.0	0.0	0.0	0.0	0.0
92.5°	12.9	68.2	158.2	46.1	34.7
95°	41.8	166.0	746.2	258.3	159.2
97.5°	76.9	194.5	1149.2	822.3	563.5
100°	101.3	211.4	1236.6	1252.6	964.9
102.5°	128.3	229.6	1217.3	1603.4	1352.1
105°	170.5	258.5	1117.6	1974.1	1876.7
107.5°	213.2	292.2	1001.2	2078.7	2165.5
110°	242.8	316.7	934.3	2038.7	2233.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.1	341.3	889.3	1944.1	2222.1
115°	316.8	382.8	847.5	1795.3	2108.2
117.5°	357.0	419.0	822.7	1632.7	1964.1
120°	389.2	441.0	820.1	1539.7	1857.4
122.5°	414.9	466.8	813.7	1458.2	1753.2
125°	447.1	495.8	808.9	1342.3	1604.9
127.5°	482.1	527.7	806.3	1273.1	1489.4
130°	500.1	545.7	802.4	1224.8	1413.5
132.5°	519.4	563.8	802.4	1187.2	1360.8
135°	546.8	592.4	799.2	1133.9	1281.7
137.5°	572.5	616.8	798.9	1088.7	1216.4
140°	591.8	637.4	797.6	1051.3	1173.9
142.5°	613.7	651.7	801.5	1021.4	1131.5
145°	644.8	677.9	805.7	981.3	1069.4
147.5°	671.5	703.6	812.7	940.9	1017.0
150°	694.7	716.7	815.3	927.5	980.9
152.5°	712.7	736.0	817.9	909.4	959.1
155°	736.5	753.8	825.0	886.9	923.1
157.5°	766.1	776.5	826.6	876.7	902.5
160°	781.5	789.4	833.0	868.9	890.9
162.5°	790.5	799.7	834.3	862.3	879.3
165°	813.7	816.8	834.6	852.6	865.2
167.5°	829.5	826.6	842.0	850.2	855.2
170°	834.6	833.0	839.4	841.2	847.5
172.5°	846.2	840.8	843.3	838.6	843.6
175°	852.3	847.6	844.3	839.3	833.0
177.5°	854.9	847.3	843.3	838.2	839.4
180°	845.9	845.9	845.9	845.9	845.9

(END OF REPORT)