

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: P563587

Luminaire Tested: **SQ4-PP3-100U-075D-830-1D-UNV-STD-W-6**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P563587
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-23, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-100U-075D-830-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS.
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

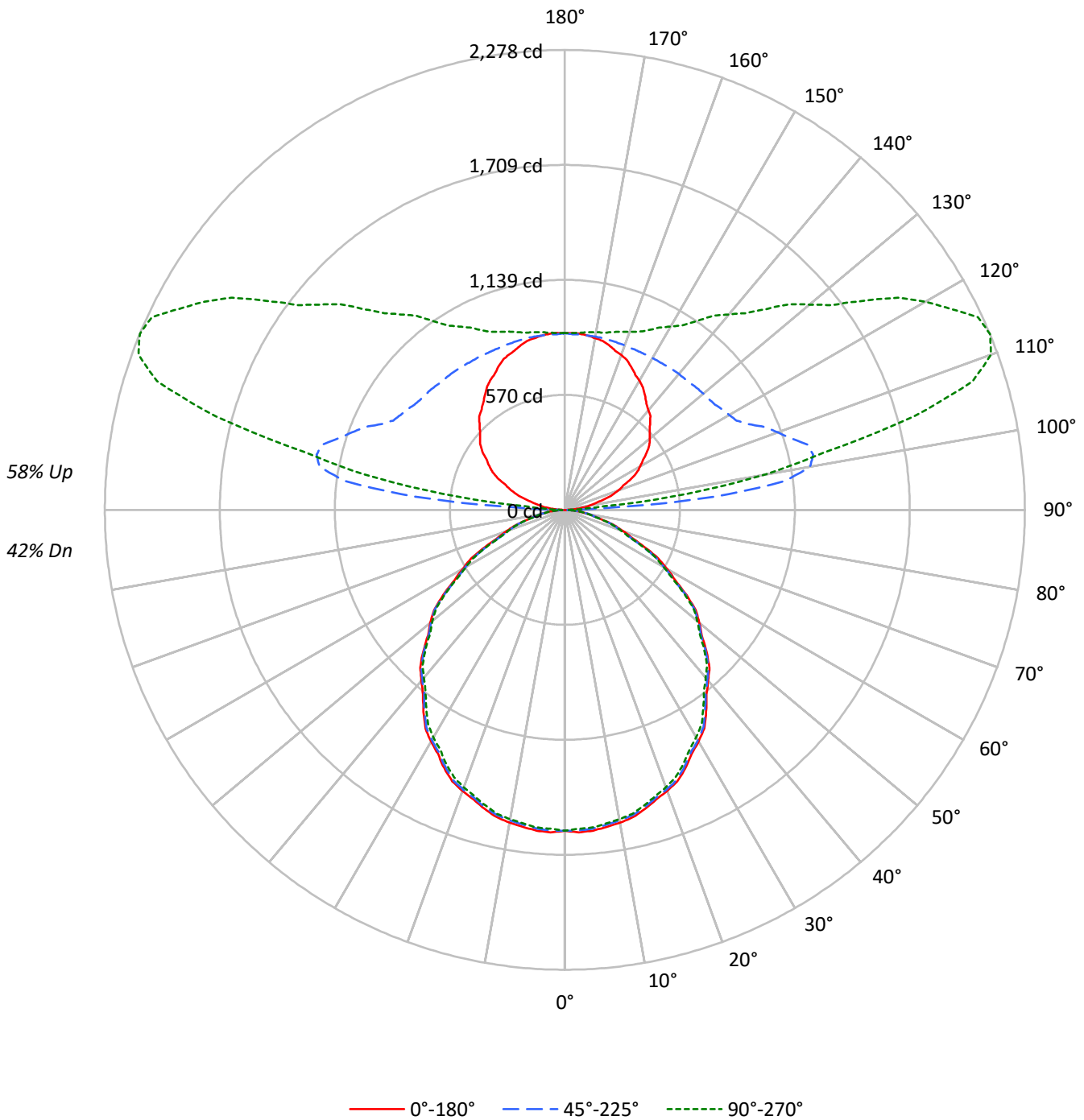
Lumens per Lamp: N/A
Luminaire Lumens: 9756.1 lumens
Efficiency: N/A
Efficacy: 125.1 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 6' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 78
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	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	88	80	74	69	80	74	68	64	61	57	54	49	46	44	38	36	35	30
3	80	71	64	58	73	65	59	54	54	49	45	43	40	38	34	32	30	26
4	73	63	55	49	67	57	51	46	48	43	39	39	35	32	30	28	26	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	27	25	23	19
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	25	22	20	17
7	57	45	37	32	52	42	35	30	35	29	26	29	25	22	23	20	18	15
8	53	41	33	28	48	38	31	26	32	26	23	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	32	25	21	27	22	18	22	18	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	9775	9775	9775
5°	9847	9787	9753
10°	9831	9761	9718
15°	9766	9713	9659
20°	9701	9646	9574
25°	9585	9520	9425
30°	9408	9359	9240
35°	9162	9100	8984
40°	8869	8813	8713
45°	8627	8566	8482
50°	8317	8264	8184
55°	7887	7782	7723
60°	7179	6974	6939
65°	6325	6062	6041
70°	5462	5235	5235
75°	4701	4634	4568
80°	4144	4194	4095
85°	3246	3536	3536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.3	1.5
10°-20°	429.1	4.4
20°-30°	642.8	6.6
30°-40°	753.9	7.7
40°-50°	756.3	7.8
50°-60°	645.2	6.6
60°-70°	420.8	4.3
70°-80°	211.1	2.2
80°-90°	60.2	0.6
90°-100°	409.9	4.2
100°-110°	1131.5	11.6
110°-120°	1166.9	12.0
120°-130°	937.7	9.6
130°-140°	736.9	7.6
140°-150°	565.2	5.8
150°-160°	406.2	4.2
160°-170°	248.4	2.5
170°-180°	83.8	0.9
0°-30°	1222.2	12.5
0°-40°	1976.1	20.3
0°-60°	3377.6	34.6
0°-90°	4069.7	41.7
90°-120°	2708.2	27.8
90°-150°	4948.1	50.7
90°-180°	5686.0	58.3
0°-180°	9756.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1589	1589	1589	1589	1589	
5°	1595	1580	1585	1580	1580	151
15°	1534	1519	1525	1520	1517	433
25°	1412	1396	1403	1390	1389	649
35°	1220	1208	1212	1198	1196	762
45°	992	985	985	975	975	764
55°	736	733	726	722	720	654
65°	435	426	416	414	415	434
75°	198	198	195	194	192	215
85°	46	50	50	50	50	54
90°	3	6	11	13	14	6
95°	60	222	744	306	199	64
105°	202	311	1245	1900	1790	215
115°	361	437	1003	1985	2257	355
125°	496	564	909	1538	1805	441
135°	596	661	884	1246	1404	462
145°	692	740	872	1060	1141	433
155°	780	806	865	952	982	359
165°	844	855	870	903	910	238
175°	875	876	871	884	881	83
180°	875	875	875	875	875	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1589.3	1589.3	1589.3	1589.3	1589.3
2.5°	1599.4	1586.3	1589.3	1587.0	1580.4
5°	1594.9	1579.9	1585.2	1579.6	1579.6
7.5°	1584.1	1567.7	1572.9	1567.3	1567.1
10°	1574.0	1557.7	1562.9	1557.3	1555.9
12.5°	1559.5	1543.2	1549.5	1542.8	1542.5
15°	1533.6	1518.6	1525.3	1519.6	1516.9
17.5°	1504.4	1488.0	1496.0	1488.2	1487.1
20°	1482.1	1465.7	1473.7	1462.6	1462.6
22.5°	1455.3	1439.0	1448.1	1433.6	1433.6
25°	1412.4	1396.1	1402.7	1390.1	1388.8
27.5°	1361.5	1345.4	1352.3	1338.1	1337.8
30°	1324.7	1309.7	1317.7	1302.4	1301.0
32.5°	1284.6	1270.7	1276.5	1261.1	1259.8
35°	1220.2	1208.0	1211.9	1197.9	1196.5
37.5°	1152.5	1140.0	1144.4	1132.5	1131.9
40°	1104.6	1096.4	1097.6	1087.8	1085.1
42.5°	1060.0	1050.8	1052.0	1042.2	1041.6
45°	991.8	985.0	984.8	975.1	975.1
47.5°	919.3	914.2	912.7	904.6	904.3
50°	869.2	865.1	863.6	856.6	855.3
52.5°	816.8	814.9	810.1	804.3	804.0
55°	735.5	732.7	725.7	721.5	720.2
57.5°	647.2	641.7	633.8	627.7	628.8
60°	583.6	578.2	566.9	564.1	564.1
62.5°	522.4	515.8	504.5	500.7	502.9
65°	434.6	426.4	416.5	413.7	415.1
67.5°	354.9	347.6	336.8	336.8	335.7
70°	303.7	299.6	291.1	291.1	291.1
72.5°	258.0	256.1	249.9	249.9	248.8
75°	197.8	197.8	195.0	193.6	192.2
77.5°	148.2	148.8	147.4	145.9	143.5
80°	117.0	119.7	118.4	117.0	115.6
82.5°	88.0	90.8	90.5	88.0	87.8
85°	46.0	50.1	50.1	50.1	50.1
87.5°	12.8	17.7	20.1	20.4	21.7
90°	2.8	5.5	11.2	12.6	14.0
92.5°	25.2	104.6	187.1	68.3	53.2
95°	60.2	221.8	743.6	305.6	198.8
97.5°	99.7	248.4	1101.5	848.0	614.2
100°	128.8	264.4	1233.7	1242.4	1009.6
102.5°	156.8	282.5	1259.4	1535.0	1314.3
105°	201.6	311.2	1244.9	1900.5	1789.6
107.5°	249.3	346.7	1175.4	2076.7	2117.2
110°	282.9	370.5	1121.6	2114.6	2246.1

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	313.1	397.4	1071.2	2084.7	2278.5
115°	361.3	436.6	1002.6	1984.8	2257.3
117.5°	403.3	478.3	957.5	1844.2	2154.2
120°	431.3	505.2	939.6	1749.1	2061.2
122.5°	458.2	528.8	925.0	1660.2	1955.9
125°	495.7	564.2	908.8	1538.0	1805.0
127.5°	527.6	596.1	899.3	1434.6	1664.9
130°	548.9	617.4	894.8	1371.4	1580.9
132.5°	569.1	634.2	890.3	1318.3	1508.1
135°	596.5	660.9	883.6	1245.7	1404.5
137.5°	627.3	685.9	880.2	1184.6	1320.2
140°	644.1	701.6	878.0	1143.9	1263.1
142.5°	663.2	716.3	875.7	1107.8	1212.6
145°	691.7	739.7	872.4	1060.5	1141.2
147.5°	719.2	761.1	869.3	1020.6	1083.3
150°	739.4	773.6	868.2	996.8	1047.4
152.5°	755.0	787.1	867.1	976.4	1018.3
155°	780.0	806.0	865.4	951.5	981.6
157.5°	802.9	822.9	865.7	933.3	953.9
160°	816.4	834.2	866.8	923.1	938.2
162.5°	827.6	843.2	867.9	914.1	925.9
165°	844.4	855.3	869.6	903.3	910.2
167.5°	857.3	863.8	871.0	896.8	899.0
170°	864.0	869.5	871.0	893.4	893.4
172.5°	869.6	872.9	871.0	888.9	887.8
175°	875.2	876.5	871.0	883.5	880.8
177.5°	877.4	876.3	870.7	878.5	876.3
180°	875.2	875.2	875.2	875.2	875.2

(END OF REPORT)