

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: P565190

Luminaire Tested: **SQ4-PW1-150U-125D-940-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P565190
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PW1-150U-125D-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES CONTINUOUS LENS.
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

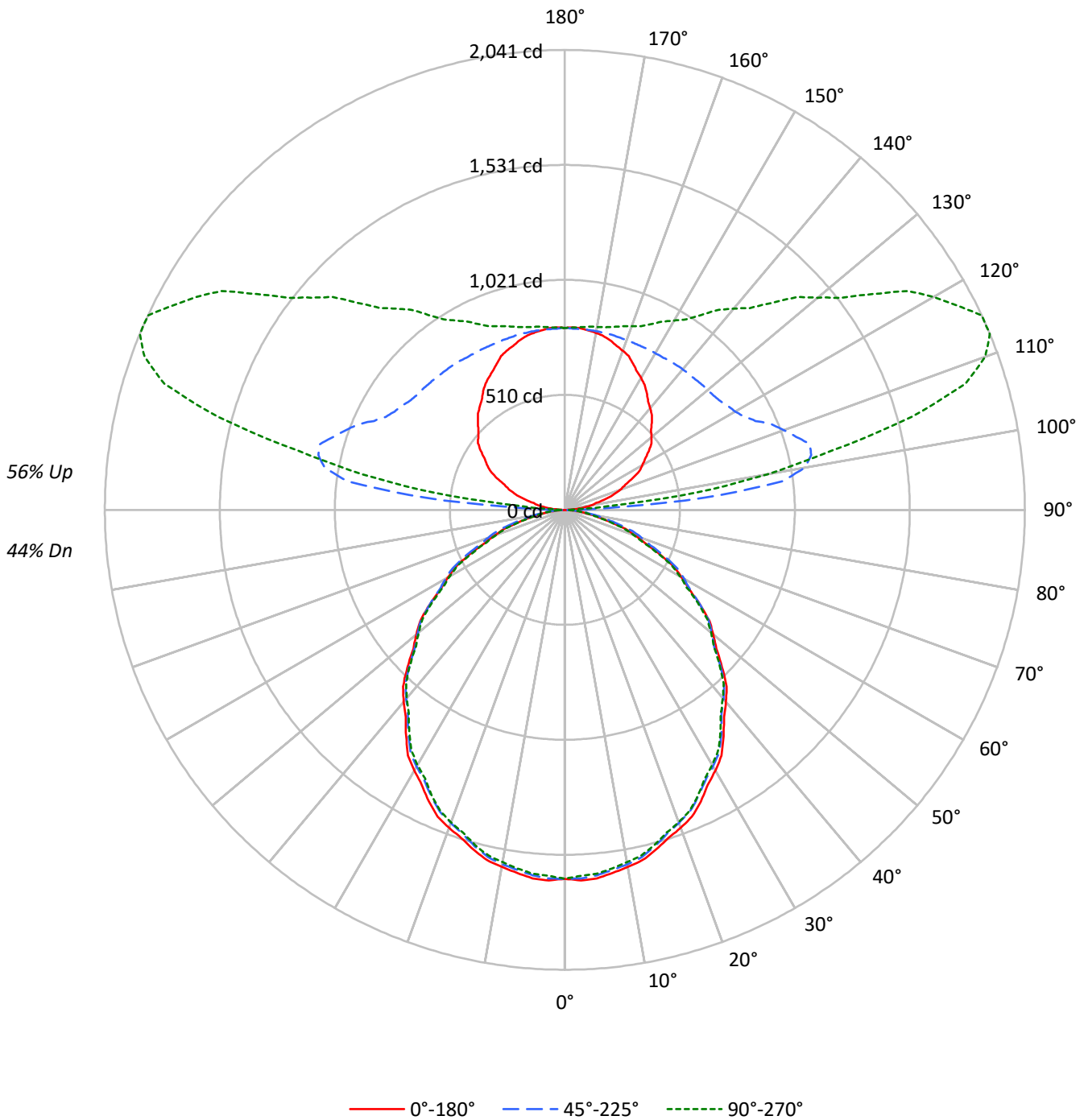
Lumens per Lamp: N/A
Luminaire Lumens: 9374.7 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 83.1
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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	44
1	97	92	89	85	88	85	82	79	70	68	66	57	56	54	45	44	43	38
2	88	81	75	70	80	74	69	65	62	58	55	50	48	45	40	38	37	32
3	80	71	64	58	73	65	59	54	55	50	46	45	41	38	35	33	31	27
4	73	63	55	49	67	58	51	46	48	43	39	40	36	33	32	29	27	23
5	67	56	48	42	62	52	45	39	43	38	34	36	32	29	29	26	23	20
6	62	50	42	36	57	46	39	34	39	34	30	32	28	25	26	23	21	18
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	24	21	18	16
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	22	19	16	14
9	50	37	30	25	45	35	28	24	30	24	21	25	21	18	20	17	15	13
10	46	34	27	22	42	32	25	21	27	22	19	23	19	16	19	16	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15105	15105	15105
5°	15203	15082	15016
10°	15081	14960	14878
15°	14922	14756	14701
20°	14743	14516	14488
25°	14537	14273	14229
30°	14230	14015	13923
35°	13825	13631	13550
40°	13394	13186	13134
45°	12873	12705	12647
50°	12340	12236	12153
55°	11763	11763	11578
60°	11046	11260	10859
65°	10108	10612	9857
70°	8910	9768	8678
75°	7611	8741	7404
80°	5903	7359	5977
85°	3822	5653	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.6
10°-20°	435.3	4.6
20°-30°	645.6	6.9
30°-40°	755.4	8.1
40°-50°	752.1	8.0
50°-60°	649.5	6.9
60°-70°	467.5	5.0
70°-80°	245.2	2.6
80°-90°	62.5	0.7
90°-100°	375.4	4.0
100°-110°	1014.9	10.8
110°-120°	1067.1	11.4
120°-130°	866.7	9.2
130°-140°	679.9	7.3
140°-150°	521.8	5.6
150°-160°	375.3	4.0
160°-170°	229.3	2.4
170°-180°	77.3	0.8
0°-30°	1235.0	13.2
0°-40°	1990.5	21.2
0°-60°	3392.0	36.2
0°-90°	4167.1	44.5
90°-120°	2457.4	26.2
90°-150°	4525.8	48.3
90°-180°	5208.0	55.6
0°-180°	9374.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1637	1637	1637	1637	1637	
5°	1642	1623	1628	1624	1621	155
15°	1562	1542	1545	1542	1539	440
25°	1428	1404	1402	1394	1398	657
35°	1228	1211	1210	1199	1203	767
45°	987	978	974	971	969	761
55°	731	730	731	721	720	653
65°	463	477	486	467	452	459
75°	214	233	245	229	208	229
85°	36	47	53	50	48	48
90°	2	5	11	12	11	5
95°	58	204	624	323	192	61
105°	189	292	1126	1661	1593	199
115°	332	406	934	1808	2041	328
125°	455	521	842	1420	1668	405
135°	545	610	819	1147	1298	421
145°	634	681	808	982	1056	397
155°	716	744	801	880	909	330
165°	779	787	804	836	840	219
175°	809	808	805	816	814	77
180°	808	808	808	808	808	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1637.2	1637.2	1637.2	1637.2	1637.2
2.5°	1646.4	1632.9	1637.2	1633.5	1625.6
5°	1641.5	1623.2	1628.5	1624.1	1621.3
7.5°	1624.8	1607.9	1611.8	1607.1	1605.5
10°	1609.8	1592.9	1596.8	1591.0	1588.1
12.5°	1592.5	1574.4	1578.3	1572.5	1570.8
15°	1562.2	1542.4	1544.9	1541.9	1539.1
17.5°	1527.0	1507.0	1507.4	1502.7	1502.2
20°	1501.6	1480.4	1478.5	1472.8	1475.6
22.5°	1473.9	1451.6	1449.7	1441.7	1445.6
25°	1428.0	1404.1	1402.1	1393.5	1397.7
27.5°	1374.9	1351.3	1351.3	1339.3	1343.8
30°	1335.7	1313.1	1315.5	1301.2	1306.9
32.5°	1294.2	1273.9	1275.1	1260.8	1266.5
35°	1227.5	1210.6	1210.2	1198.8	1203.0
37.5°	1159.4	1144.5	1142.1	1135.5	1136.7
40°	1112.1	1099.4	1094.8	1090.5	1090.5
42.5°	1062.5	1050.9	1046.4	1043.2	1042.0
45°	986.6	978.2	973.7	970.7	969.3
47.5°	911.6	903.7	899.8	897.8	896.3
50°	859.7	854.1	852.5	848.1	846.7
52.5°	807.8	804.4	802.9	797.4	795.9
55°	731.3	729.9	731.3	721.2	719.8
57.5°	651.7	654.0	658.6	645.0	641.6
60°	598.6	604.3	610.2	594.2	588.5
62.5°	544.4	553.4	561.7	543.3	535.4
65°	463.0	477.1	486.1	467.0	451.5
67.5°	384.6	402.0	412.8	392.2	374.7
70°	330.3	350.1	362.1	341.4	321.7
72.5°	283.0	305.0	314.7	295.3	275.5
75°	213.5	233.2	245.2	228.9	207.7
77.5°	151.5	170.1	180.0	165.8	148.3
80°	111.1	130.8	138.5	126.6	112.5
82.5°	78.8	95.1	100.4	93.3	83.7
85°	36.1	47.3	53.4	50.4	47.6
87.5°	9.6	18.2	24.2	24.4	25.3
90°	1.7	5.1	11.3	12.2	11.3
92.5°	24.7	90.0	177.5	77.1	55.8
95°	58.3	204.5	624.3	323.1	192.1
97.5°	93.6	234.5	973.1	805.3	591.4
100°	120.0	246.6	1081.6	1128.0	912.0
102.5°	144.3	263.5	1119.8	1372.6	1211.1
105°	188.7	291.5	1125.9	1660.8	1592.8
107.5°	229.7	323.6	1076.7	1840.6	1863.2
110°	261.7	346.7	1032.9	1888.9	1984.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	290.2	369.8	992.6	1879.2	2040.6
115°	332.1	406.1	933.8	1807.6	2040.6
117.5°	373.2	442.5	895.0	1698.3	1962.3
120°	398.2	466.2	872.0	1619.8	1889.3
122.5°	421.9	488.5	858.1	1535.7	1807.2
125°	454.7	521.0	841.6	1420.2	1668.5
127.5°	485.0	550.1	831.9	1326.0	1544.3
130°	501.7	568.8	827.7	1267.8	1465.0
132.5°	519.1	585.5	823.5	1215.3	1396.8
135°	545.1	609.7	819.0	1146.7	1298.1
137.5°	571.4	632.4	815.2	1091.2	1214.4
140°	589.5	646.4	813.8	1055.4	1165.0
142.5°	606.9	660.4	811.0	1023.1	1119.1
145°	633.8	681.4	807.7	981.6	1056.4
147.5°	658.3	700.5	803.9	944.0	1001.4
150°	676.4	713.8	802.5	923.5	969.4
152.5°	693.1	725.8	801.8	904.6	942.3
155°	715.5	743.6	800.8	880.5	909.4
157.5°	738.8	758.4	800.9	863.8	882.8
160°	752.1	768.2	801.6	853.2	866.8
162.5°	762.5	775.9	802.3	844.8	855.0
165°	779.0	786.7	804.2	835.6	839.9
167.5°	790.3	795.6	804.4	827.8	829.8
170°	797.3	799.8	805.1	824.2	824.2
172.5°	802.8	803.3	805.1	820.0	819.4
175°	808.6	807.7	805.1	815.5	813.8
177.5°	810.5	808.4	804.9	811.8	809.8
180°	807.7	807.7	807.7	807.7	807.7

(END OF REPORT)