

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: P562063

Luminaire Tested: **SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (2700K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562063
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2106-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 7/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (2700K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE 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

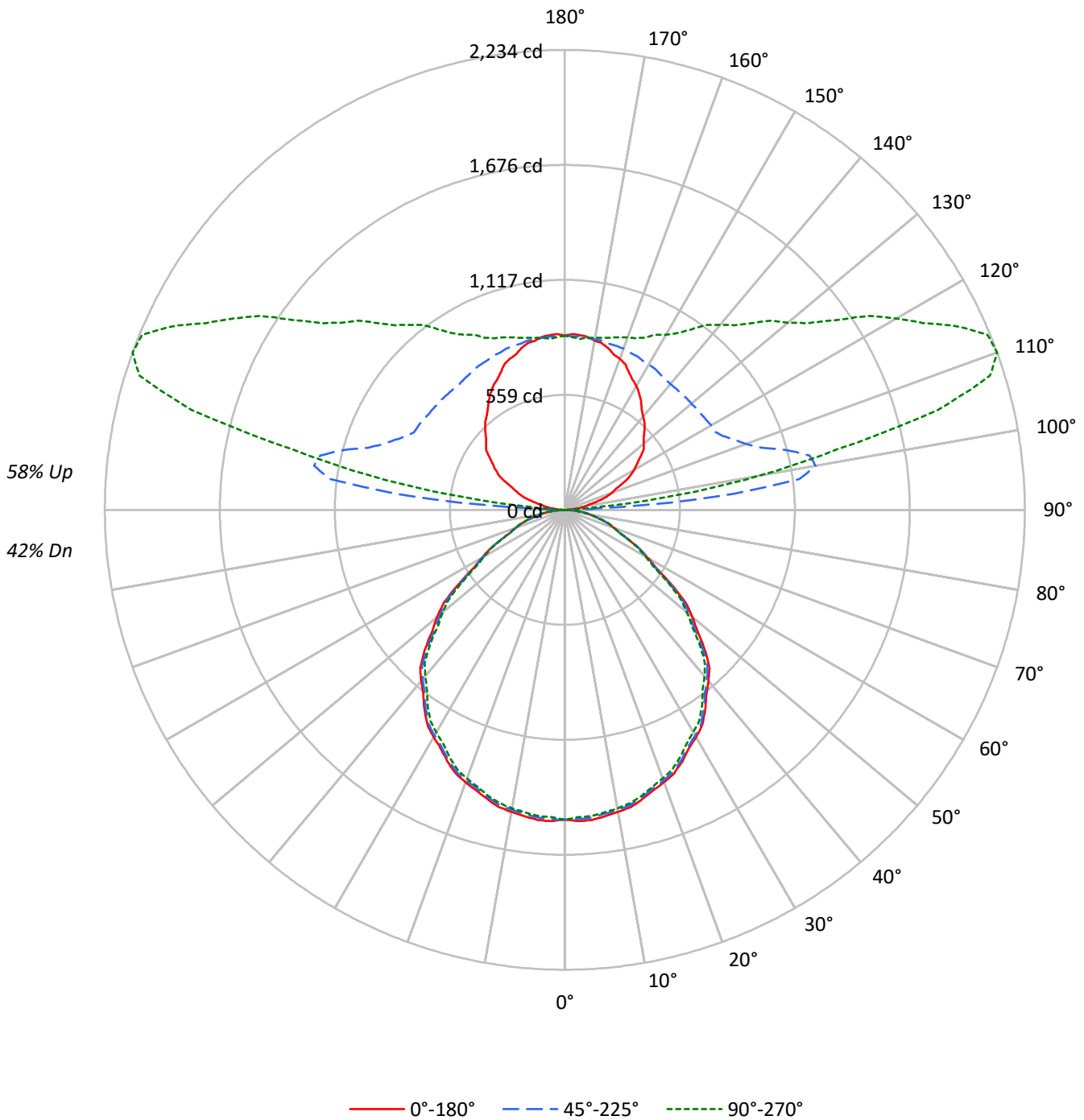
Lumens per Lamp: N/A
Luminaire Lumens: 9015.0 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

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	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	36
2	88	81	75	70	80	74	69	64	61	57	54	49	47	45	38	37	35	30
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	34	32	30	26
4	73	63	55	49	67	58	51	46	48	43	39	39	35	33	31	28	26	22
5	67	56	48	42	61	52	45	39	43	38	34	35	31	28	28	25	23	20
6	62	50	42	37	56	46	39	34	39	33	30	32	28	25	25	22	20	17
7	57	45	38	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15
8	53	41	34	28	49	38	31	27	32	27	23	26	22	20	21	18	16	14
9	50	38	30	25	45	35	28	24	29	24	21	24	20	18	19	17	15	12
10	46	34	27	23	42	32	26	21	27	22	19	22	19	16	18	15	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13880	13880	13880
5°	14004	13897	13825
10°	13960	13864	13790
15°	13899	13813	13738
20°	13829	13740	13639
25°	13732	13639	13481
30°	13583	13487	13293
35°	13383	13266	13076
40°	13077	12938	12703
45°	12545	12325	12072
50°	11606	11326	11104
55°	10129	9901	9691
60°	8536	8464	8296
65°	7383	7412	7355
70°	6782	6817	6817
75°	6513	6513	6559
80°	6126	6195	6126
85°	4933	5483	5483



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.3	1.6
10°-20°	407.0	4.5
20°-30°	613.9	6.8
30°-40°	731.5	8.1
40°-50°	721.2	8.0
50°-60°	551.2	6.1
60°-70°	341.1	3.8
70°-80°	193.7	2.1
80°-90°	58.9	0.7
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	4.2
160°-170°	236.8	2.6
170°-180°	80.4	0.9
0°-30°	1163.2	12.9
0°-40°	1894.7	21.0
0°-60°	3167.0	35.1
0°-90°	3760.8	41.7
90°-120°	2532.9	28.1
90°-150°	4554.7	50.5
90°-180°	5254.0	58.3
0°-180°	9015.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1512	1496	1500	1495	1493	143
15°	1455	1440	1446	1441	1438	411
25°	1349	1332	1340	1326	1324	621
35°	1188	1174	1178	1162	1161	742
45°	962	949	945	928	925	737
55°	630	620	616	605	602	564
65°	338	336	340	337	337	343
75°	183	183	183	184	184	193
85°	47	49	52	52	52	54
90°	0	0	0	0	0	4
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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CATALOG NUMBER: SQ4-PR1-125U-100D-92765-1D-UNV-STD-W-4 (2700K)

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1504.4	1504.4	1504.4	1504.4	1504.4
2.5°	1513.7	1500.5	1504.4	1501.1	1494.0
5°	1512.1	1495.7	1500.5	1495.2	1492.7
7.5°	1500.5	1484.3	1489.1	1483.9	1482.3
10°	1490.1	1474.9	1479.8	1474.5	1472.0
12.5°	1478.7	1462.5	1468.4	1462.1	1459.5
15°	1455.1	1439.9	1446.1	1440.8	1438.3
17.5°	1429.2	1413.0	1419.1	1413.1	1409.8
20°	1408.5	1393.3	1399.4	1390.3	1389.1
22.5°	1385.7	1370.5	1376.6	1364.4	1364.2
25°	1348.9	1332.4	1339.8	1325.5	1324.3
27.5°	1305.1	1289.9	1296.0	1281.5	1279.9
30°	1275.0	1259.8	1266.0	1250.3	1247.8
32.5°	1240.8	1226.6	1231.7	1216.2	1214.6
35°	1188.2	1174.3	1177.8	1162.3	1161.0
37.5°	1128.3	1115.7	1117.7	1100.6	1099.3
40°	1085.8	1073.2	1074.2	1056.0	1054.7
42.5°	1039.2	1026.5	1025.5	1007.3	1006.0
45°	961.5	948.8	944.6	927.7	925.2
47.5°	872.8	860.2	852.3	838.6	836.8
50°	808.6	795.9	789.1	777.4	773.6
52.5°	739.1	726.4	720.7	710.0	706.2
55°	629.7	619.6	615.5	605.1	602.5
57.5°	525.8	519.0	517.8	507.7	506.6
60°	462.6	458.8	458.7	449.6	449.6
62.5°	408.7	405.9	407.9	401.9	400.9
65°	338.2	335.7	339.5	336.9	336.9
67.5°	282.5	282.5	284.8	283.8	283.8
70°	251.4	251.4	252.7	252.7	252.7
72.5°	223.4	222.4	225.7	225.7	224.7
75°	182.7	182.7	182.7	184.0	184.0
77.5°	142.3	142.5	143.6	143.3	142.3
80°	115.3	116.6	116.6	115.3	115.3
82.5°	88.4	89.6	89.7	89.4	88.4
85°	46.6	49.2	51.8	51.8	51.8
87.5°	13.5	17.5	20.7	20.7	19.7
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)