

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: P564478

Luminaire Tested: **SQ4-PR1-150U-100D-835-1D-UNV-STD-W-4**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P564478
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1910-536-25, 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-PR1-150U-100D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE RIPPLE CONTINUOUS LENS.
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

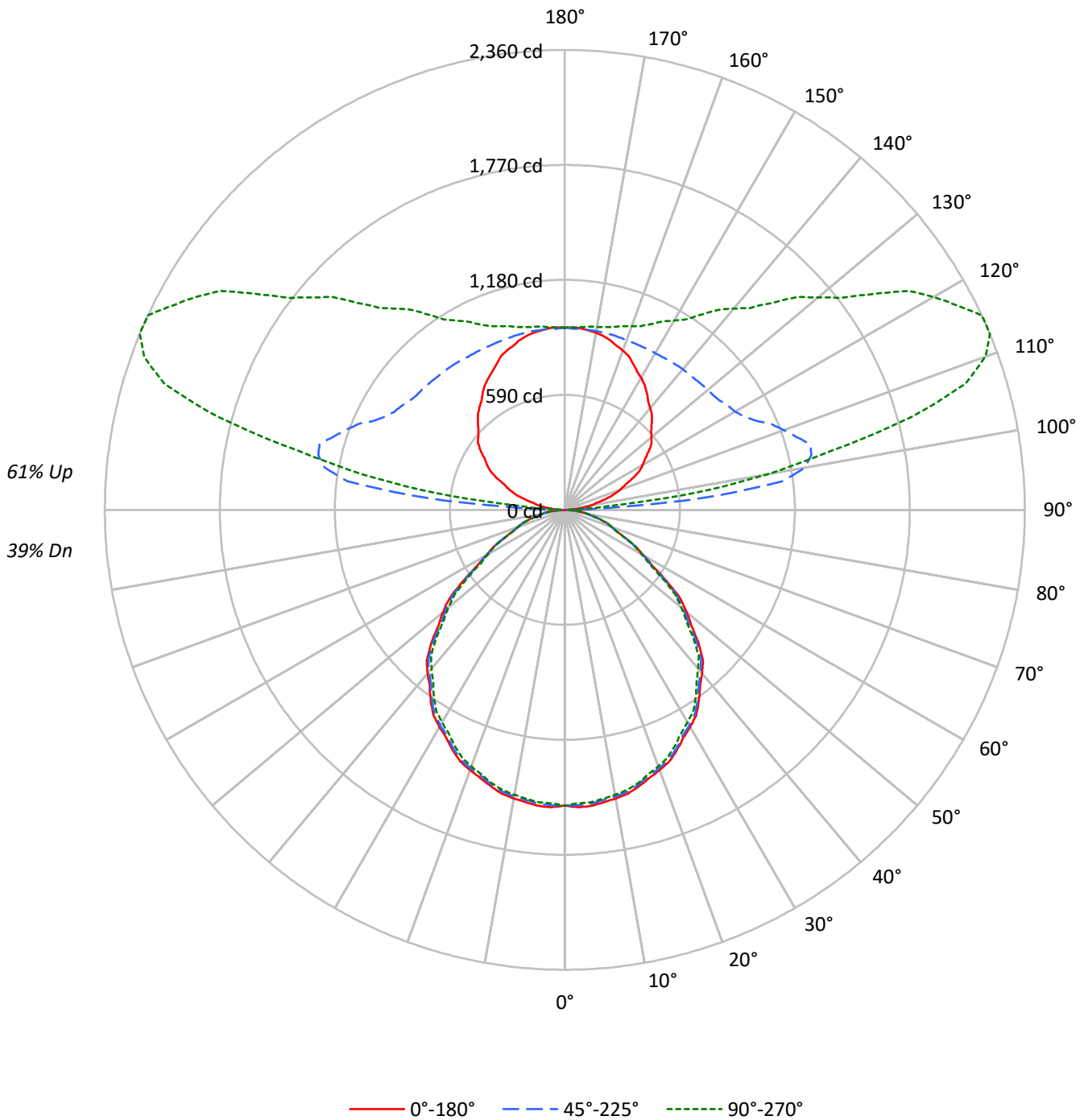
Lumens per Lamp: N/A
Luminaire Lumens: 9820.9 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 72.3
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	104	104	104	104	95	95	95	95	77	77	77	61	61	61	46	46	46	39
1	95	91	88	84	87	83	80	77	68	66	64	54	52	51	41	40	39	33
2	87	80	74	69	79	73	68	64	60	56	53	47	45	43	36	35	33	28
3	80	70	63	58	72	64	58	53	53	48	45	42	39	36	32	30	28	24
4	73	62	55	49	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	56	48	42	61	51	44	39	42	37	33	34	30	27	26	24	22	18
6	62	50	42	36	56	46	39	34	38	33	29	31	27	24	24	21	19	16
7	57	45	37	32	52	41	34	30	34	29	25	28	24	21	22	19	17	14
8	53	41	33	28	48	37	31	26	31	26	22	25	22	19	20	17	15	13
9	49	37	30	25	45	34	28	23	29	24	20	23	20	17	18	16	14	11
10	46	34	27	22	42	31	25	21	26	21	18	21	18	15	17	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14005	14005	14005
5°	14132	14023	13951
10°	14087	13989	13915
15°	14025	13938	13863
20°	13955	13864	13762
25°	13856	13763	13604
30°	13707	13610	13414
35°	13504	13386	13195
40°	13197	13054	12818
45°	12659	12437	12181
50°	11711	11430	11204
55°	10222	9991	9780
60°	8614	8542	8372
65°	7451	7479	7423
70°	6844	6879	6879
75°	6573	6573	6620
80°	6185	6254	6185
85°	4986	5536	5536



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.5
10°-20°	410.7	4.2
20°-30°	619.5	6.3
30°-40°	738.1	7.5
40°-50°	727.7	7.4
50°-60°	556.2	5.7
60°-70°	344.2	3.5
70°-80°	195.5	2.0
80°-90°	61.4	0.6
90°-100°	434.2	4.4
100°-110°	1174.0	12.0
110°-120°	1234.3	12.6
120°-130°	1002.6	10.2
130°-140°	786.5	8.0
140°-150°	603.6	6.1
150°-160°	434.1	4.4
160°-170°	265.2	2.7
170°-180°	89.4	0.9
0°-30°	1173.8	12.0
0°-40°	1911.9	19.5
0°-60°	3195.8	32.5
0°-90°	3796.9	38.7
90°-120°	2842.6	28.9
90°-150°	5235.3	53.3
90°-180°	6024.0	61.3
0°-180°	9820.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1518	1518	1518	1518	1518	
5°	1526	1509	1514	1509	1506	145
15°	1468	1453	1459	1454	1451	414
25°	1361	1344	1352	1338	1336	626
35°	1199	1185	1188	1173	1172	748
45°	970	957	953	936	934	743
55°	636	625	621	611	608	569
65°	341	339	343	340	340	346
75°	184	184	184	186	186	195
85°	47	50	52	52	52	55
90°	2	6	13	14	13	6
95°	67	236	722	374	222	71
105°	218	337	1302	1921	1842	230
115°	384	470	1080	2091	2360	379
125°	526	603	974	1643	1930	469
135°	631	705	947	1326	1502	487
145°	733	788	934	1135	1222	459
155°	828	860	926	1019	1052	382
165°	901	910	930	967	972	254
175°	935	934	931	943	941	89
180°	934	934	934	934	934	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1518.0	1518.0	1518.0	1518.0	1518.0
2.5°	1527.4	1514.2	1518.0	1514.7	1507.6
5°	1525.9	1509.3	1514.1	1508.8	1506.3
7.5°	1514.1	1497.7	1502.6	1497.3	1495.8
10°	1503.7	1488.3	1493.2	1487.9	1485.3
12.5°	1492.1	1475.8	1481.7	1475.4	1472.8
15°	1468.3	1453.0	1459.2	1453.9	1451.4
17.5°	1442.2	1425.8	1432.0	1425.9	1422.6
20°	1421.3	1405.9	1412.1	1402.9	1401.7
22.5°	1398.3	1382.9	1389.1	1376.8	1376.6
25°	1361.1	1344.5	1352.0	1337.6	1336.3
27.5°	1316.9	1301.6	1307.8	1293.1	1291.6
30°	1286.6	1271.3	1277.5	1261.7	1259.1
32.5°	1252.1	1237.8	1242.9	1227.2	1225.7
35°	1199.0	1184.9	1188.5	1172.8	1171.5
37.5°	1138.6	1125.8	1127.9	1110.6	1109.3
40°	1095.7	1082.9	1083.9	1065.6	1064.3
42.5°	1048.6	1035.8	1034.8	1016.4	1015.2
45°	970.2	957.4	953.2	936.1	933.6
47.5°	880.7	868.0	860.1	846.2	844.4
50°	815.9	803.1	796.3	784.4	780.6
52.5°	745.8	733.0	727.2	716.4	712.6
55°	635.5	625.2	621.1	610.6	608.0
57.5°	530.6	523.7	522.5	512.3	511.2
60°	466.8	463.0	462.9	453.7	453.7
62.5°	412.4	409.6	411.6	405.6	404.5
65°	341.3	338.7	342.6	340.0	340.0
67.5°	285.0	285.0	287.4	286.3	286.3
70°	253.7	253.7	255.0	255.0	255.0
72.5°	225.4	224.4	227.8	227.7	226.7
75°	184.4	184.4	184.4	185.7	185.7
77.5°	143.6	143.8	144.9	144.6	143.6
80°	116.4	117.6	117.7	116.4	116.4
82.5°	89.2	90.5	90.5	90.2	89.2
85°	47.1	49.6	52.3	52.3	52.3
87.5°	14.0	18.9	23.5	23.7	22.5
90°	2.0	5.9	13.1	14.1	13.1
92.5°	28.6	104.1	205.4	89.2	64.6
95°	67.4	236.5	722.1	373.7	222.3
97.5°	108.2	271.3	1125.6	931.5	684.1
100°	138.8	285.3	1251.1	1304.8	1055.0
102.5°	167.0	304.8	1295.4	1587.8	1401.0
105°	218.2	337.2	1302.4	1921.2	1842.5
107.5°	265.7	374.3	1245.5	2129.1	2155.3
110°	302.7	401.1	1194.8	2185.0	2296.1



TEST NUMBER: P564478

CATALOG NUMBER: SQ4-PR1-150U-100D-835-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	335.7	427.8	1148.1	2173.8	2360.5
115°	384.2	469.7	1080.2	2091.0	2360.5
117.5°	431.7	511.9	1035.3	1964.5	2269.9
120°	460.6	539.3	1008.8	1873.7	2185.5
122.5°	488.0	565.1	992.7	1776.4	2090.5
125°	526.0	602.7	973.6	1642.9	1930.0
127.5°	561.0	636.3	962.3	1533.9	1786.4
130°	580.3	658.0	957.5	1466.5	1694.7
132.5°	600.4	677.3	952.6	1405.8	1615.8
135°	630.6	705.3	947.4	1326.5	1501.6
137.5°	661.0	731.6	943.0	1262.2	1404.8
140°	681.9	747.8	941.4	1220.8	1347.7
142.5°	702.0	764.0	938.1	1183.5	1294.6
145°	733.2	788.2	934.3	1135.4	1222.0
147.5°	761.5	810.3	929.9	1091.9	1158.4
150°	782.5	825.7	928.3	1068.3	1121.4
152.5°	801.8	839.5	927.5	1046.4	1090.0
155°	827.7	860.2	926.3	1018.6	1052.0
157.5°	854.7	877.3	926.5	999.2	1021.2
160°	870.0	888.6	927.3	987.0	1002.7
162.5°	882.0	897.6	928.1	977.2	989.0
165°	901.1	910.0	930.3	966.6	971.5
167.5°	914.2	920.3	930.5	957.5	959.9
170°	922.3	925.2	931.3	953.4	953.4
172.5°	928.7	929.3	931.3	948.6	947.8
175°	935.3	934.3	931.3	943.3	941.4
177.5°	937.5	935.2	931.1	939.1	936.7
180°	934.3	934.3	934.3	934.3	934.3

(END OF REPORT)