

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: P523958

Luminaire Tested: **SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 5/24/2021

Test Information

Test Method: LM-79-2019
Report Number: P523958
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, G2-2103-172-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/24/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4-PP3-150U-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE PRISM CONTINUOUS LENS
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 1500 LUMENS PER FOOT
Light Source: 2700K/65000K CCT, 90 CRI LEDS, TUNED TO 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

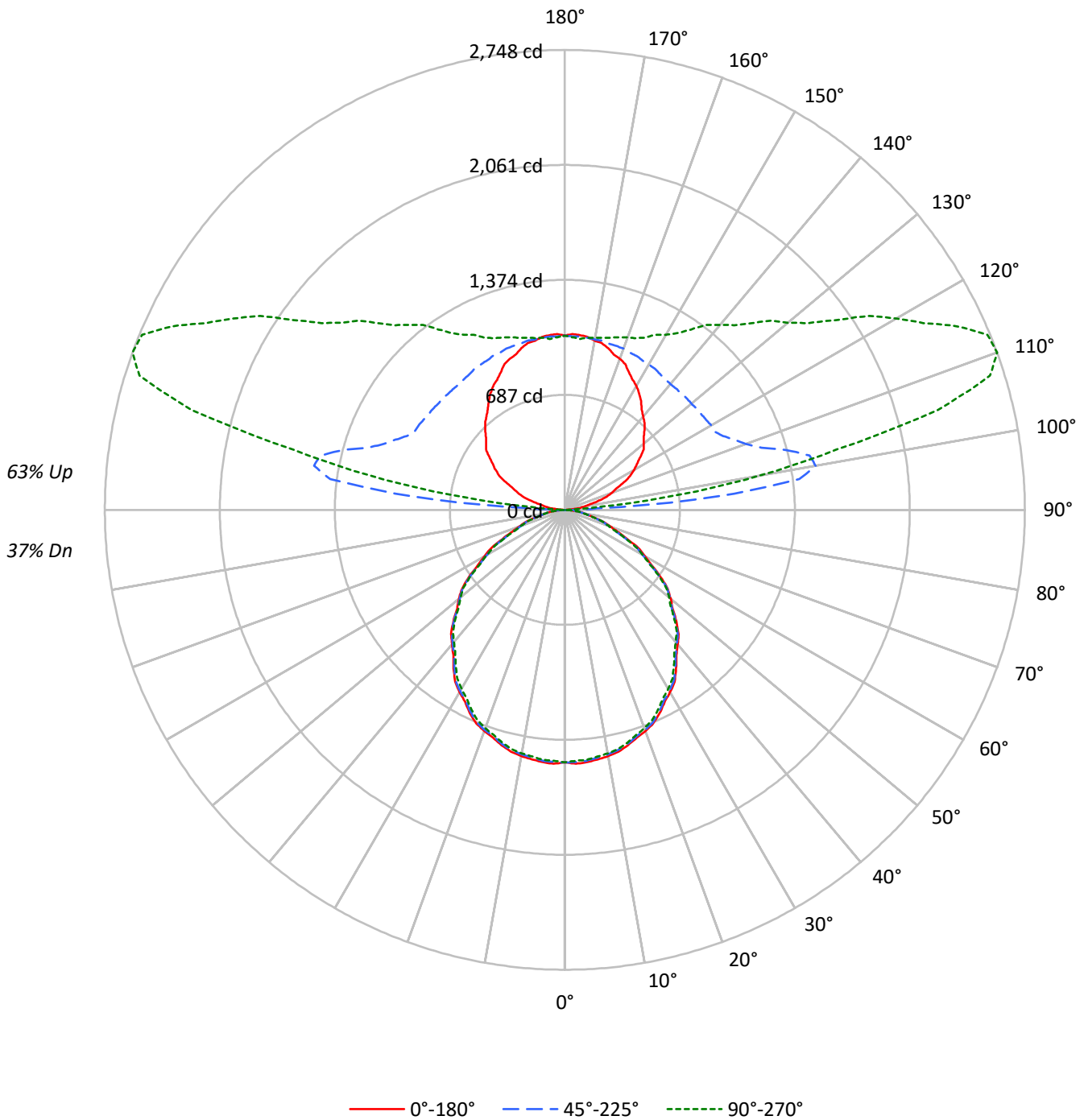
Lumens per Lamp: N/A
Luminaire Lumens: 10325.0 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 93.6
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	94	94	94	94	76	76	76	60	60	60	45	45	45	37
1	95	91	87	84	86	83	79	77	67	65	63	53	51	50	40	39	38	32
2	87	80	74	69	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	63	57	72	64	58	53	52	48	44	41	38	36	31	29	27	23
4	72	62	54	48	65	56	50	45	46	41	38	37	33	30	28	26	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	23	21	17
6	61	49	41	36	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	37	31	51	41	34	29	34	28	25	27	23	20	21	18	16	13
8	52	40	33	28	47	37	30	26	31	25	22	25	21	18	19	16	14	12
9	49	37	29	24	44	34	27	23	28	23	19	23	19	16	18	15	13	11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	14	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13920	13920	13920
5°	14022	13937	13888
10°	13998	13899	13837
15°	13906	13830	13754
20°	13813	13736	13632
25°	13649	13556	13420
30°	13397	13326	13157
35°	13046	12957	12794
40°	12629	12550	12406
45°	12285	12198	12077
50°	11843	11767	11654
55°	11231	11081	10996
60°	10223	9931	9881
65°	9007	8632	8601
70°	7777	7456	7456
75°	6695	6598	6506
80°	5903	5972	5834
85°	4615	5039	5039



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.7	1.4
10°-20°	407.4	3.9
20°-30°	610.2	5.9
30°-40°	715.7	6.9
40°-50°	717.9	7.0
50°-60°	612.5	5.9
60°-70°	399.4	3.9
70°-80°	200.4	1.9
80°-90°	55.5	0.5
90°-100°	474.1	4.6
100°-110°	1349.1	13.1
110°-120°	1292.6	12.5
120°-130°	1023.0	9.9
130°-140°	821.1	8.0
140°-150°	642.8	6.2
150°-160°	470.4	4.6
160°-170°	291.4	2.8
170°-180°	98.9	1.0
0°-30°	1160.2	11.2
0°-40°	1875.9	18.2
0°-60°	3206.3	31.1
0°-90°	3861.6	37.4
90°-120°	3115.8	30.2
90°-150°	5602.8	54.3
90°-180°	6463.0	62.6
0°-180°	10325.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1509	1509	1509	1509	1509	
5°	1514	1500	1505	1500	1500	144
15°	1456	1442	1448	1443	1440	411
25°	1341	1325	1332	1320	1318	617
35°	1158	1147	1150	1137	1136	724
45°	942	935	935	926	926	725
55°	698	696	689	685	684	620
65°	413	405	395	393	394	412
75°	188	188	185	184	182	204
85°	44	48	48	48	48	51
90°	0	0	0	0	0	4
95°	51	204	918	318	196	59
105°	210	318	1375	2428	2308	222
115°	390	471	1042	2208	2593	384
125°	550	610	995	1651	1974	492
135°	673	729	983	1395	1577	519
145°	793	834	991	1207	1316	496
155°	906	927	1015	1091	1136	419
165°	1001	1005	1027	1049	1064	281
175°	1048	1043	1038	1032	1025	99
180°	1040	1040	1040	1040	1040	

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1508.7	1508.7	1508.7	1508.7	1508.7
2.5°	1518.3	1505.9	1508.7	1506.5	1500.3
5°	1514.0	1499.8	1504.8	1499.5	1499.5
7.5°	1503.7	1488.2	1493.1	1487.8	1487.6
10°	1494.2	1478.7	1483.6	1478.3	1477.0
12.5°	1480.4	1464.9	1470.9	1464.6	1464.3
15°	1455.9	1441.6	1447.9	1442.6	1440.0
17.5°	1428.1	1412.6	1420.2	1412.7	1411.7
20°	1406.9	1391.4	1399.0	1388.4	1388.4
22.5°	1381.5	1366.0	1374.7	1360.9	1360.9
25°	1340.8	1325.3	1331.6	1319.6	1318.3
27.5°	1292.4	1277.2	1283.7	1270.2	1269.9
30°	1257.5	1243.3	1250.9	1236.3	1235.0
32.5°	1219.4	1206.2	1211.8	1197.2	1195.9
35°	1158.3	1146.7	1150.4	1137.2	1135.9
37.5°	1094.1	1082.2	1086.4	1075.0	1074.5
40°	1048.6	1040.8	1042.0	1032.7	1030.1
42.5°	1006.3	997.5	998.6	989.3	988.8
45°	941.5	935.0	934.9	925.6	925.6
47.5°	872.7	867.8	866.4	858.7	858.4
50°	825.1	821.2	819.8	813.2	811.9
52.5°	775.4	773.6	769.1	763.5	763.2
55°	698.2	695.6	688.9	684.9	683.6
57.5°	614.3	609.2	601.6	595.9	596.9
60°	554.0	548.9	538.2	535.5	535.5
62.5°	495.9	489.7	478.9	475.3	477.4
65°	412.6	404.8	395.4	392.8	394.0
67.5°	336.9	329.9	319.7	319.7	318.7
70°	288.3	284.4	276.4	276.4	276.4
72.5°	244.9	243.1	237.2	237.2	236.2
75°	187.8	187.8	185.1	183.8	182.5
77.5°	140.7	141.2	139.9	138.5	136.2
80°	111.1	113.7	112.4	111.0	109.8
82.5°	83.6	86.2	85.9	83.6	83.3
85°	43.6	47.5	47.6	47.6	47.6
87.5°	11.6	15.8	16.9	16.9	18.0
90°	0.0	0.0	0.0	0.0	0.0
92.5°	15.8	83.9	194.7	56.7	42.7
95°	51.4	204.2	917.9	317.7	195.8
97.5°	94.6	239.2	1413.6	1011.5	693.2
100°	124.6	260.0	1521.2	1540.9	1186.9
102.5°	157.9	282.4	1497.5	1972.3	1663.2
105°	209.7	318.0	1374.8	2428.4	2308.5
107.5°	262.3	359.4	1231.6	2557.0	2663.8
110°	298.7	389.6	1149.3	2507.8	2747.7

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	333.5	419.8	1093.9	2391.5	2733.4
115°	389.7	470.9	1042.5	2208.5	2593.4
117.5°	439.2	515.4	1012.0	2008.4	2416.1
120°	478.7	542.5	1008.9	1894.1	2284.8
122.5°	510.4	574.2	1001.0	1793.7	2156.6
125°	549.9	609.9	995.0	1651.2	1974.2
127.5°	593.1	649.1	991.9	1566.0	1832.2
130°	615.2	671.3	987.1	1506.7	1738.8
132.5°	638.9	693.5	987.1	1460.4	1673.9
135°	672.6	728.7	983.2	1394.8	1576.6
137.5°	704.2	758.8	982.8	1339.2	1496.3
140°	728.0	784.1	981.2	1293.2	1444.1
142.5°	754.9	801.7	985.9	1256.4	1391.8
145°	793.2	833.9	991.1	1207.2	1315.5
147.5°	826.1	865.5	999.8	1157.4	1251.0
150°	854.6	881.6	1002.9	1140.9	1206.7
152.5°	876.7	905.4	1006.1	1118.7	1179.8
155°	906.0	927.3	1014.8	1091.0	1135.5
157.5°	942.4	955.2	1016.8	1078.4	1110.1
160°	961.4	971.1	1024.7	1068.8	1095.9
162.5°	972.5	983.7	1026.3	1060.8	1081.7
165°	1001.0	1004.8	1026.7	1048.8	1064.3
167.5°	1020.3	1016.9	1035.8	1045.8	1052.0
170°	1026.7	1024.7	1032.6	1034.8	1042.5
172.5°	1040.9	1034.3	1037.4	1031.6	1037.7
175°	1048.4	1042.6	1038.5	1032.4	1024.7
177.5°	1051.6	1042.3	1037.4	1031.1	1032.6
180°	1040.5	1040.5	1040.5	1040.5	1040.5

(END OF REPORT)