

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: P562480

Luminaire Tested: **SQ4-PW1-150U-100D-92765-1D-UNV-STD-W-4 (3000K)**

Issue Date: 7/30/2021

Test Information

Test Method: LM-79-2019
Report Number: P562480
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2101-105-51, 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-100D-92765-1D-UNV-STD-W-4 (3000K)
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH PERCEIVE WAVES 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

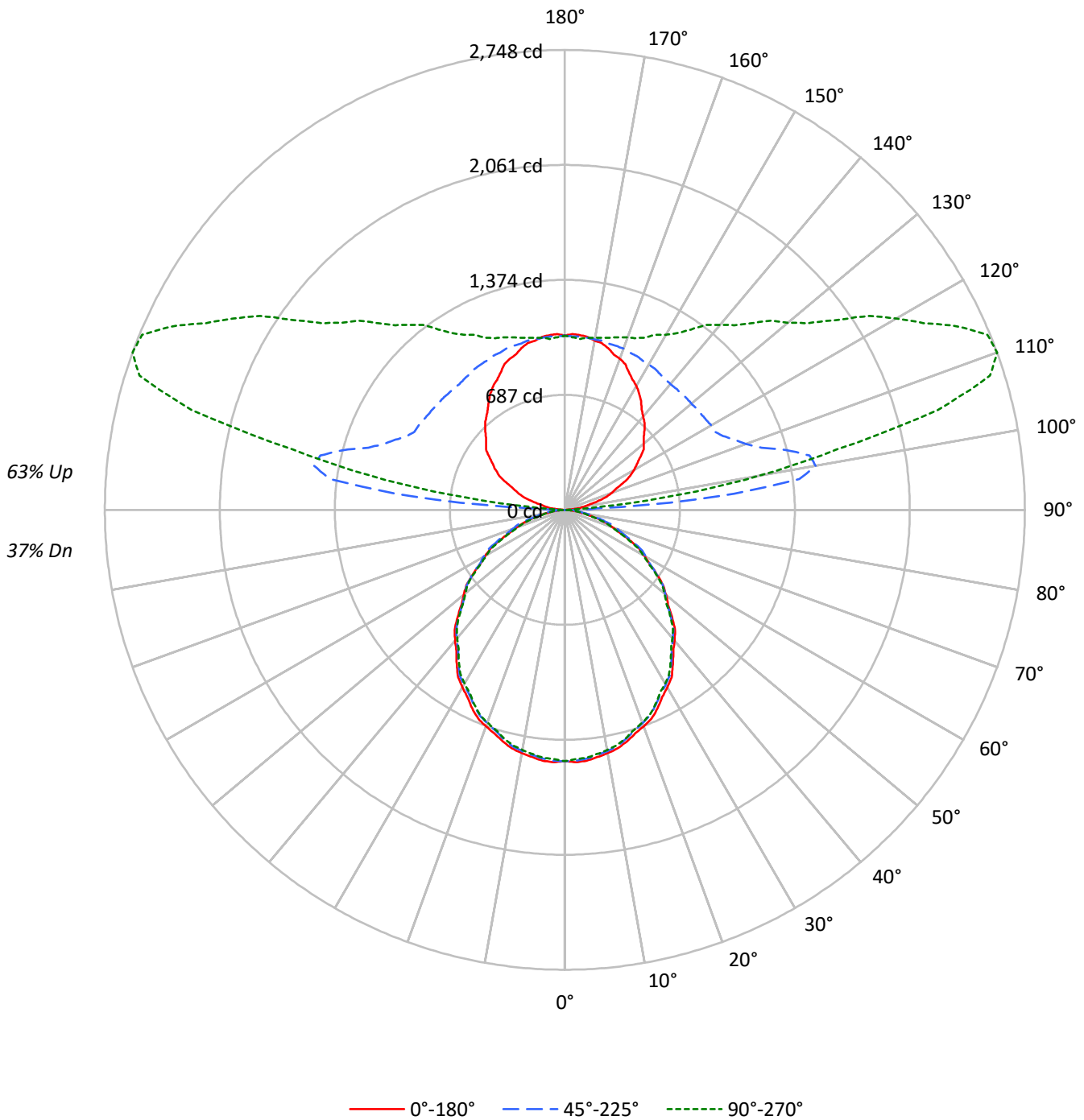
Lumens per Lamp: N/A
Luminaire Lumens: 10282.8 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.19 / 1.31
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	44	44	44	37
1	95	91	87	84	86	82	79	76	67	65	63	52	51	50	39	38	38	31
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	26
3	79	70	63	57	71	63	57	52	52	47	44	41	38	35	31	29	27	22
4	72	62	54	48	65	56	50	44	46	41	37	36	33	30	27	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	41	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	33	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	37	29	24	44	34	27	23	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	13	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13850	13850	13850
5°	13939	13829	13768
10°	13828	13716	13642
15°	13682	13530	13479
20°	13518	13311	13284
25°	13330	13087	13047
30°	13047	12850	12766
35°	12677	12499	12424
40°	12281	12091	12043
45°	11804	11649	11597
50°	11315	11220	11144
55°	10787	10787	10616
60°	10129	10324	9957
65°	9269	9730	9038
70°	8171	8956	7955
75°	6976	8014	6791
80°	5409	6748	5483
85°	3504	5176	4615



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.4	1.4
10°-20°	399.1	3.9
20°-30°	592.0	5.8
30°-40°	692.7	6.7
40°-50°	689.6	6.7
50°-60°	595.5	5.8
60°-70°	428.6	4.2
70°-80°	224.8	2.2
80°-90°	55.7	0.5
90°-100°	474.1	4.6
100°-110°	1349.1	13.1
110°-120°	1292.6	12.6
120°-130°	1023.0	9.9
130°-140°	821.1	8.0
140°-150°	642.8	6.3
150°-160°	470.4	4.6
160°-170°	291.4	2.8
170°-180°	98.9	1.0
0°-30°	1132.4	11.0
0°-40°	1825.1	17.7
0°-60°	3110.2	30.2
0°-90°	3819.4	37.1
90°-120°	3115.8	30.3
90°-150°	5602.8	54.5
90°-180°	6463.0	62.9
0°-180°	10282.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1501	1501	1501	1501	1501	
5°	1505	1488	1493	1489	1487	143
15°	1432	1414	1416	1414	1411	404
25°	1309	1287	1286	1278	1282	602
35°	1126	1110	1110	1099	1103	704
45°	905	897	893	890	889	698
55°	671	669	671	661	660	598
65°	425	438	446	428	414	421
75°	196	214	225	210	190	210
85°	33	43	49	46	44	44
90°	0	0	0	0	0	3
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°	1501.2	1501.2	1501.2	1501.2	1501.2
2.5°	1509.6	1497.2	1501.2	1497.8	1490.6
5°	1505.1	1488.3	1493.2	1489.2	1486.6
7.5°	1489.8	1474.3	1477.9	1473.6	1472.1
10°	1476.0	1460.5	1464.1	1458.8	1456.2
12.5°	1460.2	1443.6	1447.2	1441.9	1440.3
15°	1432.4	1414.3	1416.5	1413.8	1411.2
17.5°	1400.1	1381.8	1382.1	1377.9	1377.4
20°	1376.8	1357.4	1355.7	1350.5	1353.0
22.5°	1351.4	1331.0	1329.2	1321.9	1325.5
25°	1309.4	1287.4	1285.6	1277.7	1281.6
27.5°	1260.7	1239.0	1239.0	1228.0	1232.1
30°	1224.7	1204.1	1206.2	1193.1	1198.3
32.5°	1186.7	1168.0	1169.2	1156.1	1161.3
35°	1125.5	1110.0	1109.7	1099.2	1103.1
37.5°	1063.1	1049.4	1047.2	1041.2	1042.2
40°	1019.7	1008.1	1003.9	999.9	999.9
42.5°	974.2	963.6	959.4	956.5	955.5
45°	904.7	896.9	892.8	890.1	888.8
47.5°	835.9	828.7	825.0	823.2	821.9
50°	788.3	783.1	781.7	777.7	776.4
52.5°	740.7	737.6	736.2	731.1	729.8
55°	670.6	669.3	670.6	661.3	660.0
57.5°	597.6	599.6	603.9	591.4	588.3
60°	548.9	554.1	559.5	544.8	539.6
62.5°	499.2	507.4	515.0	498.2	491.0
65°	424.6	437.5	445.7	428.2	414.0
67.5°	352.6	368.6	378.5	359.7	343.6
70°	302.9	321.0	332.0	313.0	294.9
72.5°	259.5	279.7	288.6	270.7	252.6
75°	195.7	213.9	224.8	209.9	190.5
77.5°	138.9	155.9	165.1	152.0	136.0
80°	101.8	119.9	127.0	116.1	103.2
82.5°	72.2	87.2	92.1	85.5	76.7
85°	33.1	43.4	48.9	46.2	43.6
87.5°	8.5	15.7	20.1	20.1	21.2
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)