

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: CORELITE

Report Number: P845385

Luminaire Tested: **SQ4P-WB-150U-050D-B40-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845385
REPORT IS A COMBINATION OF REPORTS P700155 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-150U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

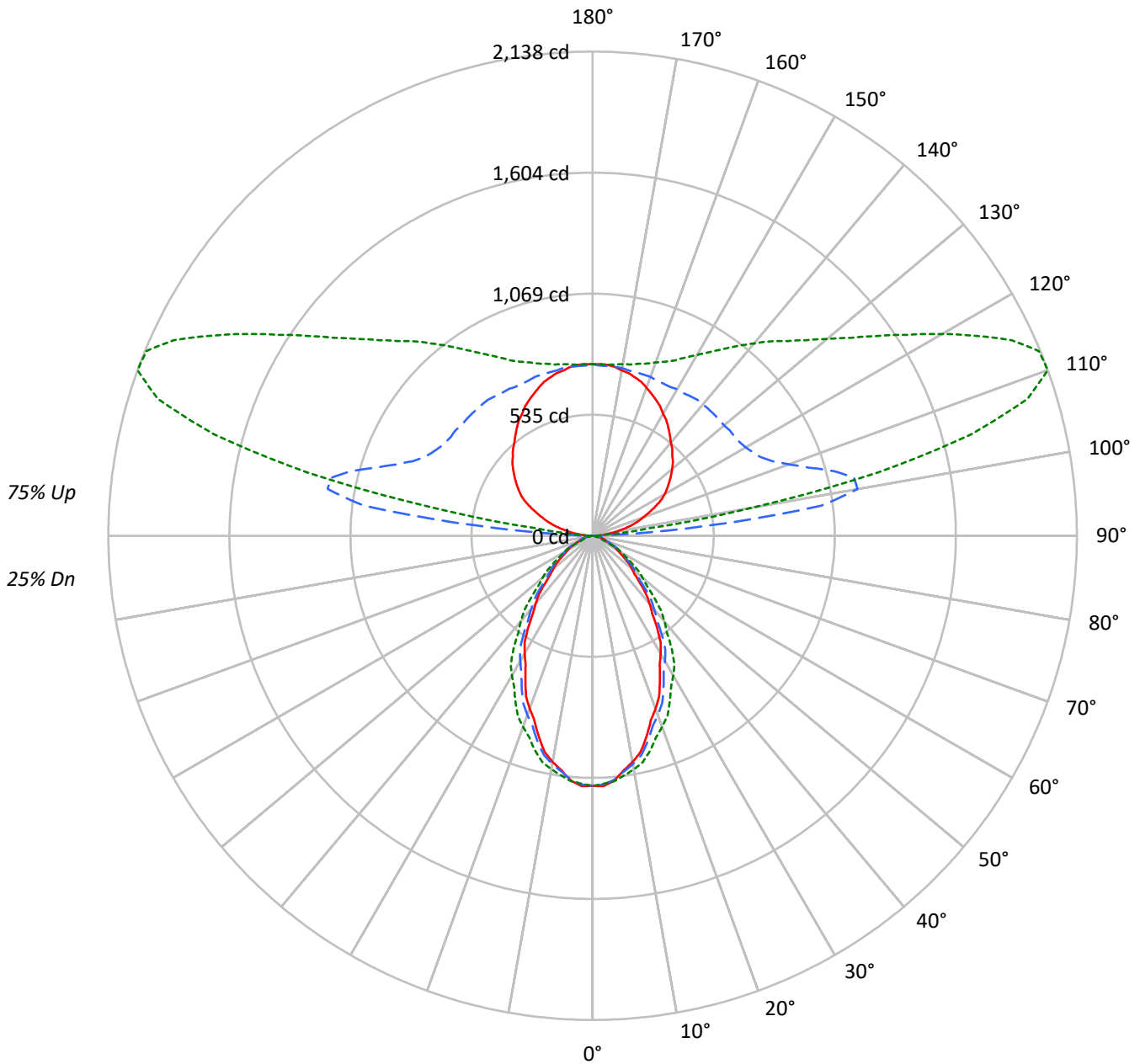
Lumens per Lamp: N/A
Luminaire Lumens: 6529.1 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 59.8
Input Voltage (V): NR
Input Current (A_{in}): 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: 25 FT

TEST NUMBER: P845385

CATALOG NUMBER: SQ4P-WB-150U-050D-B40-1D-UNV

Luminous Intensity Polar Plot





TEST NUMBER: P845385

CATALOG NUMBER: SQ4P-WB-150U-050D-B40-1D-UNV

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	50	30	10	0	
RCR																						
0	101	101	101	101	90	90	90	90	69	69	69	50	50	50	33	33	33	25				25
1	93	89	85	82	82	79	76	74	61	59	58	45	44	43	30	29	29	22				22
2	85	78	73	68	75	70	65	61	54	51	49	40	38	37	27	26	25	19				19
3	78	69	62	57	69	62	56	52	48	45	42	36	34	32	24	23	22	17				17
4	71	61	54	49	63	55	49	44	43	39	36	32	30	28	22	21	19	15				15
5	66	55	47	42	58	49	43	38	39	35	31	29	26	24	20	19	17	14				14
6	60	49	42	37	54	44	38	33	35	31	27	27	24	21	19	17	16	12				12
7	56	45	37	32	50	40	34	29	32	28	24	24	21	19	17	15	14	11				11
8	52	41	33	28	46	37	30	26	29	25	22	22	19	17	16	14	13	10				10
9	48	37	30	25	43	34	27	23	27	22	19	21	18	16	15	13	12	9				9
10	45	34	27	23	40	31	25	21	25	20	18	19	16	14	14	12	11	9				9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10186	10186	10186
5°	10058	10023	10081
10°	9503	9589	9812
15°	8772	8977	9379
20°	7967	8265	8812
25°	7145	7535	8211
30°	6390	6807	7585
35°	5587	5990	6848
40°	4701	5075	5928
45°	3880	4216	4949
50°	3240	3531	4122
55°	2749	3030	3404
60°	2351	2629	2718
65°	1873	2209	1753
70°	1659	1726	1071
75°	1536	1397	656
80°	1413	1286	569
85°	1270	1175	466



TEST NUMBER: P845385

CATALOG NUMBER: SQ4P-WB-150U-050D-B40-1D-UNV

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.6
10°-20°	263.4	4.0
20°-30°	341.1	5.2
30°-40°	334.1	5.1
40°-50°	255.7	3.9
50°-60°	170.4	2.6
60°-70°	93.0	1.4
70°-80°	38.7	0.6
80°-90°	12.8	0.2
90°-100°	301.6	4.6
100°-110°	1049.5	16.1
110°-120°	1016.6	15.6
120°-130°	797.5	12.2
130°-140°	631.2	9.7
140°-150°	487.1	7.5
150°-160°	349.2	5.3
160°-170°	213.6	3.3
170°-180°	72.2	1.1
0°-30°	705.8	10.8
0°-40°	1039.8	15.9
0°-60°	1465.9	22.5
0°-90°	1610.5	24.7
90°-120°	2367.8	36.3
90°-150°	4283.6	65.6
90°-180°	4919.0	75.3
0°-180°	6529.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1086	1075	1082	1085	1088	101
15°	918	915	940	965	982	256
25°	702	704	740	772	807	323
35°	496	498	532	568	608	308
45°	297	303	323	348	379	232
55°	171	178	188	196	212	155
65°	86	93	101	88	80	89
75°	43	43	39	27	18	46
85°	12	12	11	7	4	13
90°	11	17	17	11	6	8
95°	51	175	509	130	79	54
105°	175	249	1103	1861	1731	184
115°	305	368	820	1731	2042	302
125°	413	509	764	1290	1538	370
135°	498	560	758	1075	1216	386
145°	583	622	752	928	1007	364
155°	662	684	741	826	854	305
165°	724	730	747	780	786	204
175°	758	758	752	764	758	72
180°	758	758	758	758	758	



TEST NUMBER: P845385

CATALOG NUMBER: SQ4P-WB-150U-050D-B40-1D-UNV

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	<i>1104.0</i>
2.5°	1106.7	1096.8	1099.3	1099.2	<i>1096.1</i>
5°	1086.0	1075.1	1082.2	1084.7	<i>1088.5</i>
7.5°	1045.7	1037.5	1050.3	1059.8	<i>1067.4</i>
10°	1014.3	1007.2	1023.5	1037.4	<i>1047.3</i>
12.5°	978.0	971.9	992.2	1010.6	<i>1023.6</i>
15°	918.4	915.1	939.8	965.3	<i>981.9</i>
17.5°	854.8	853.2	881.5	911.3	<i>932.4</i>
20°	811.4	810.9	841.8	873.0	<i>897.5</i>
22.5°	767.6	768.6	801.1	833.5	<i>861.6</i>
25°	701.9	703.8	740.2	772.4	<i>806.6</i>
27.5°	641.1	642.0	679.5	713.6	<i>750.1</i>
30°	599.8	602.0	638.9	674.2	<i>712.0</i>
32.5°	558.3	561.0	597.1	633.5	<i>672.1</i>
35°	496.0	498.4	531.8	567.7	<i>608.0</i>
37.5°	431.8	435.1	464.9	498.6	<i>538.3</i>
40°	390.3	395.2	421.4	453.3	<i>492.2</i>
42.5°	350.5	356.4	380.7	411.0	<i>446.0</i>
45°	297.4	303.1	323.1	347.5	<i>379.3</i>
47.5°	251.7	258.3	273.6	294.7	<i>321.7</i>
50°	225.7	231.9	246.0	261.6	<i>287.2</i>
52.5°	202.8	209.0	221.6	233.6	<i>255.5</i>
55°	170.9	178.1	188.4	195.7	<i>211.6</i>
57.5°	144.9	151.7	159.9	163.1	<i>172.8</i>
60°	127.4	135.0	142.5	142.0	<i>147.3</i>
62.5°	111.5	118.0	125.3	120.2	<i>120.6</i>
65°	85.8	92.8	101.2	88.5	<i>80.3</i>
67.5°	69.3	70.7	79.4	61.7	<i>52.1</i>
70°	61.5	61.5	64.0	47.8	<i>39.7</i>
72.5°	54.2	54.2	51.9	38.9	<i>30.3</i>
75°	43.1	43.1	39.2	26.9	<i>18.4</i>
77.5°	33.2	32.9	30.0	20.1	<i>13.4</i>
80°	26.6	26.6	24.2	15.9	<i>10.7</i>
82.5°	20.8	20.8	18.8	12.4	<i>7.8</i>
85°	12.0	12.0	11.1	7.3	<i>4.4</i>
87.5°	4.3	4.3	3.9	2.3	<i>1.9</i>
90°	11.3	17.0	17.0	11.3	<i>5.6</i>
92.5°	28.3	84.8	79.2	33.9	<i>28.3</i>
95°	50.9	175.3	509.0	130.0	<i>79.2</i>
97.5°	79.2	198.0	1018.1	463.8	<i>248.9</i>
100°	107.5	209.2	1187.8	1114.2	<i>718.3</i>
102.5°	141.4	226.3	1182.1	1566.7	<i>1289.5</i>
105°	175.3	248.9	1102.9	1860.8	<i>1730.7</i>



TEST NUMBER: P845385

CATALOG NUMBER: SQ4P-WB-150U-050D-B40-1D-UNV

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	271.4	333.7	859.7	1872.1	2132.2
115°	305.4	367.7	820.1	1730.7	2041.8
117.5°	339.4	407.2	797.4	1600.6	1911.7
120°	367.7	441.1	780.5	1476.2	1781.6
122.5°	390.2	475.1	769.2	1374.4	1651.5
125°	412.9	509.0	763.5	1289.5	1538.4
127.5°	435.5	531.6	763.5	1227.3	1436.6
130°	458.2	543.0	757.9	1165.1	1351.7
132.5°	480.8	548.6	757.9	1119.8	1278.2
135°	497.7	559.9	757.9	1074.6	1216.0
137.5°	520.4	571.3	757.9	1035.1	1165.1
140°	537.3	588.2	757.9	995.4	1108.5
142.5°	559.9	605.2	757.9	955.9	1057.6
145°	582.6	622.1	752.2	927.6	1006.8
147.5°	605.2	639.1	746.6	899.3	961.5
150°	622.1	656.1	746.6	871.0	921.9
152.5°	644.8	673.0	740.9	842.7	888.0
155°	661.8	684.4	740.9	825.7	854.0
157.5°	678.7	701.3	740.9	808.8	831.5
160°	695.7	712.6	746.6	797.4	814.4
162.5°	712.6	724.0	746.6	786.2	797.4
165°	724.0	729.6	746.6	780.5	786.2
167.5°	735.2	740.9	746.6	774.9	774.9
170°	740.9	746.6	752.2	769.2	769.2
172.5°	752.2	752.2	752.2	763.5	763.5
175°	757.9	757.9	752.2	763.5	757.9
177.5°	757.9	757.9	752.2	763.5	757.9
180°	757.9	757.9	757.9	757.9	757.9



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	209.2	277.2	1001.1	1990.8	2013.5
110°	237.5	305.4	921.9	1973.9	2137.9



(END OF REPORT)