

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: P844883

Luminaire Tested: **SQ4P-BB-150U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P844883
REPORT IS A COMBINATION OF REPORTS P700132 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-BB-150U-075D-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT
UPLIGHT, 750 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

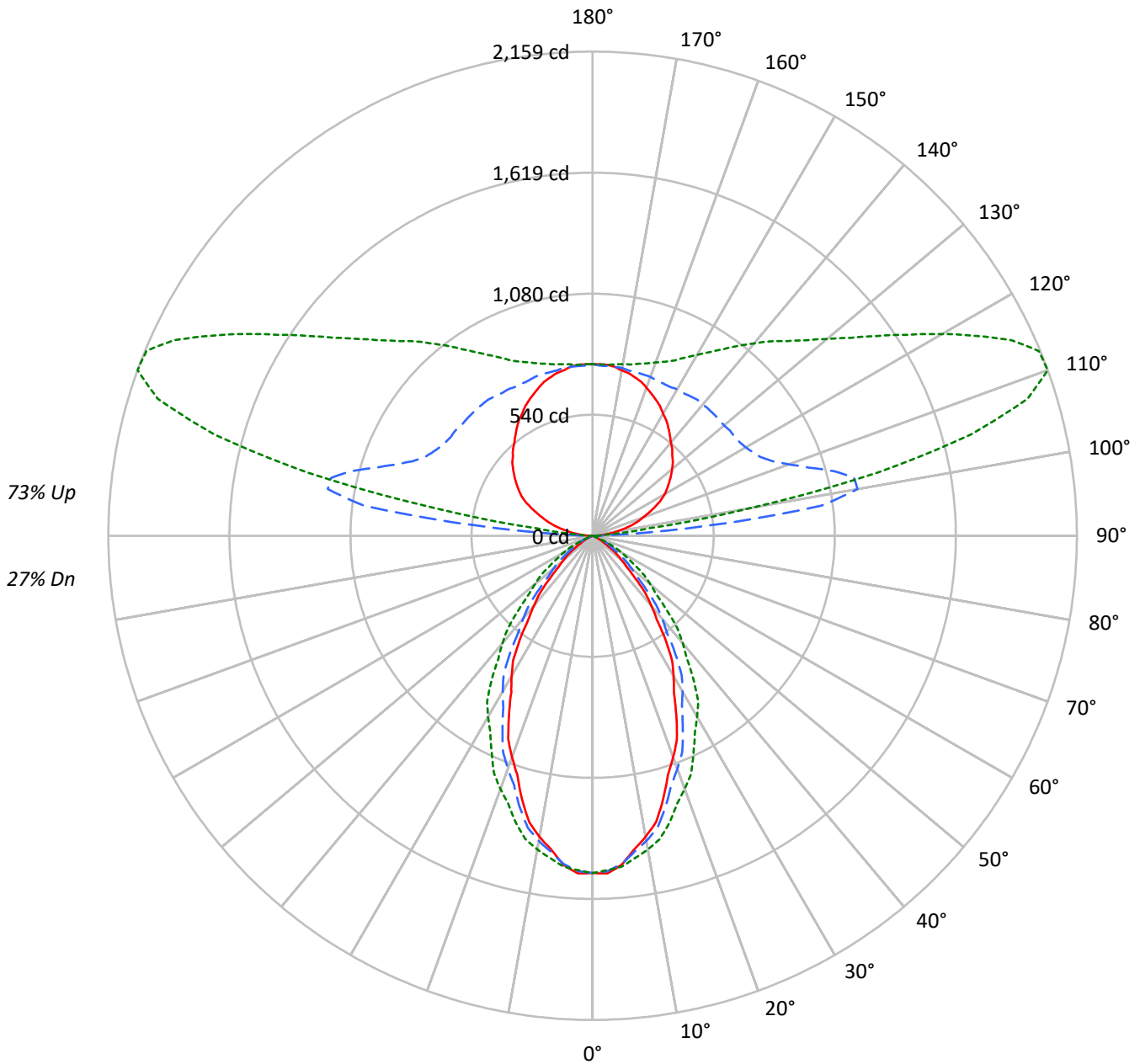
Lumens per Lamp: N/A
Luminaire Lumens: 6762.4 lumens
Efficiency: N/A
Efficacy: 98.6 lumens/watt
Spacing Criteria (0/90/45): 0.85 / 0.97 / 0.97
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 68.6
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

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Luminous Intensity Polar Plot





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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	102	102	102	102	91	91	91	91	70	70	70	52	52	52	35	35	35	27				27
1	93	90	86	83	83	80	78	75	63	61	59	47	46	45	32	31	31	24				24
2	86	79	74	69	77	71	67	63	56	53	51	42	40	39	29	28	28	22				22
3	79	71	64	59	70	64	58	54	50	47	44	38	36	34	27	26	25	20				20
4	73	63	56	51	65	57	51	46	45	41	38	35	32	30	25	23	22	18				18
5	67	57	49	44	60	51	45	40	41	37	33	32	29	27	23	21	20	16				16
6	62	51	44	39	55	46	40	36	37	33	30	29	26	24	21	19	18	15				15
7	57	46	39	34	51	42	36	31	34	30	26	27	24	21	19	18	16	14				14
8	53	42	35	30	48	38	32	28	31	27	24	24	21	19	18	16	15	13				13
9	50	39	32	27	45	35	29	25	29	24	21	23	20	18	17	15	14	12				12
10	47	35	29	24	42	32	27	23	27	22	19	21	18	16	16	14	13	11				11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13873	13873	13873
5°	13650	13616	13718
10°	12770	12942	13303
15°	11611	11979	12646
20°	10307	10842	11792
25°	8975	9686	10835
30°	7689	8533	9928
35°	6374	7243	8831
40°	4897	5792	7525
45°	3542	4385	6055
50°	2411	3267	4804
55°	1568	2363	3732
60°	899	1664	2700
65°	238	1017	1367
70°	119	313	391
75°	53	25	0
80°	37	0	0
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	2.0
10°-20°	350.9	5.2
20°-30°	439.3	6.5
30°-40°	405.8	6.0
40°-50°	272.7	4.0
50°-60°	140.8	2.1
60°-70°	44.1	0.7
70°-80°	2.8	0.0
80°-90°	1.9	0.0
90°-100°	304.6	4.5
100°-110°	1059.8	15.7
110°-120°	1026.6	15.2
120°-130°	805.3	11.9
130°-140°	637.4	9.4
140°-150°	491.9	7.3
150°-160°	352.6	5.2
160°-170°	215.7	3.2
170°-180°	73.0	1.1
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0°-30°	927.5	13.7
0°-40°	1333.3	19.7
0°-60°	1746.8	25.8
0°-90°	1795.6	26.6
90°-120°	2391.0	35.4
90°-150°	4325.6	64.0
90°-180°	4967.0	73.5
0°-180°	6762.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1504	1504	1504	1504	1504	
5°	1474	1459	1470	1475	1481	137
15°	1216	1211	1254	1296	1324	339
25°	882	889	952	1017	1064	404
35°	566	580	643	719	784	351
45°	272	288	336	402	464	213
55°	98	114	147	189	232	91
65°	11	21	47	56	63	18
75°	2	2	1	0	0	2
85°	0	0	0	0	0	0
90°	11	17	17	11	6	7
95°	51	177	514	131	80	54
105°	177	251	1114	1879	1748	186
115°	308	371	828	1748	2062	305
125°	417	514	771	1302	1554	373
135°	503	565	765	1085	1228	390
145°	588	628	760	937	1017	368
155°	668	691	748	834	862	308
165°	731	737	754	788	794	206
175°	765	765	760	771	765	72
180°	765	765	765	765	765	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1503.7	1503.7	1503.7	1503.7	1503.7
2.5°	1507.1	1493.0	1496.6	1496.6	1492.6
5°	1473.8	1458.8	1470.2	1475.4	1481.2
7.5°	1411.6	1399.9	1421.7	1437.8	1449.6
10°	1363.1	1353.3	1381.4	1403.6	1420.0
12.5°	1307.4	1299.6	1333.7	1364.2	1385.1
15°	1215.6	1211.4	1254.1	1296.1	1324.0
17.5°	1117.3	1117.1	1165.9	1218.2	1251.7
20°	1049.8	1052.0	1104.3	1161.9	1201.0
22.5°	982.3	987.2	1043.2	1103.3	1148.1
25°	881.6	888.7	951.5	1016.6	1064.3
27.5°	785.1	795.5	861.5	929.1	987.2
30°	721.7	733.7	801.0	872.1	931.9
32.5°	659.3	673.7	739.1	814.6	875.3
35°	565.9	580.2	643.1	718.8	784.1
37.5°	469.5	483.4	544.8	619.4	690.1
40°	406.6	422.3	480.9	553.1	624.8
42.5°	349.6	365.3	420.3	491.2	559.2
45°	271.5	287.7	336.1	401.5	464.1
47.5°	206.6	224.2	266.7	326.0	382.9
50°	168.0	185.7	227.6	279.8	334.7
52.5°	137.2	154.5	192.2	241.3	291.5
55°	97.5	113.8	146.9	188.8	232.0
57.5°	67.3	81.5	111.2	145.9	180.1
60°	48.7	62.2	90.2	118.4	146.3
62.5°	32.5	44.8	72.1	93.8	112.5
65°	10.9	20.9	46.6	56.2	62.6
67.5°	5.6	6.6	24.4	25.8	28.0
70°	4.4	4.4	11.6	12.3	14.5
72.5°	3.1	3.1	4.6	6.0	6.5
75°	1.5	1.5	0.7	0.0	0.0
77.5°	0.7	0.7	0.7	0.0	0.0
80°	0.7	0.7	0.0	0.0	0.0
82.5°	0.2	0.2	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0
90°	11.4	17.1	17.1	11.4	5.7
92.5°	28.6	85.6	79.9	34.2	28.6
95°	51.4	177.0	514.0	131.3	79.9
97.5°	79.9	199.9	1028.1	468.3	251.3
100°	108.5	211.3	1199.4	1125.2	725.3
102.5°	142.8	228.5	1193.7	1582.0	1302.2
105°	177.0	251.3	1113.7	1879.0	1747.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	274.1	337.0	868.1	1890.5	2153.1
115°	308.4	371.3	828.2	1747.7	2061.8
117.5°	342.7	411.2	805.3	1616.3	1930.4
120°	371.3	445.4	788.1	1490.6	1799.1
122.5°	394.1	479.8	776.8	1387.9	1667.7
125°	417.0	514.0	771.0	1302.2	1553.5
127.5°	439.8	536.8	771.0	1239.4	1450.7
130°	462.7	548.3	765.3	1176.5	1365.0
132.5°	485.5	554.0	765.3	1130.8	1290.7
135°	502.6	565.4	765.3	1085.1	1227.9
137.5°	525.5	576.9	765.3	1045.2	1176.5
140°	542.6	594.0	765.3	1005.2	1119.4
142.5°	565.4	611.1	765.3	965.3	1068.0
145°	588.3	628.2	759.6	936.7	1016.6
147.5°	611.1	645.4	753.9	908.1	970.9
150°	628.2	662.5	753.9	879.5	930.9
152.5°	651.1	679.6	748.2	851.0	896.7
155°	668.3	691.1	748.2	833.8	862.4
157.5°	685.4	708.2	748.2	816.7	839.6
160°	702.5	719.6	753.9	805.3	822.4
162.5°	719.6	731.1	753.9	793.9	805.3
165°	731.1	736.8	753.9	788.1	793.9
167.5°	742.4	748.2	753.9	782.5	782.5
170°	748.2	753.9	759.6	776.8	776.8
172.5°	759.6	759.6	759.6	771.0	771.0
175°	765.3	765.3	759.6	771.0	765.3
177.5°	765.3	765.3	759.6	771.0	765.3
180°	765.3	765.3	765.3	765.3	765.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	211.3	279.9	1011.0	2010.4	2033.3
110°	239.8	308.4	930.9	1993.2	2158.9



(END OF REPORT)