

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: P845384

Luminaire Tested: **SQ4P-WB-150U-050D-B35-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845384
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-B35-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 1500 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

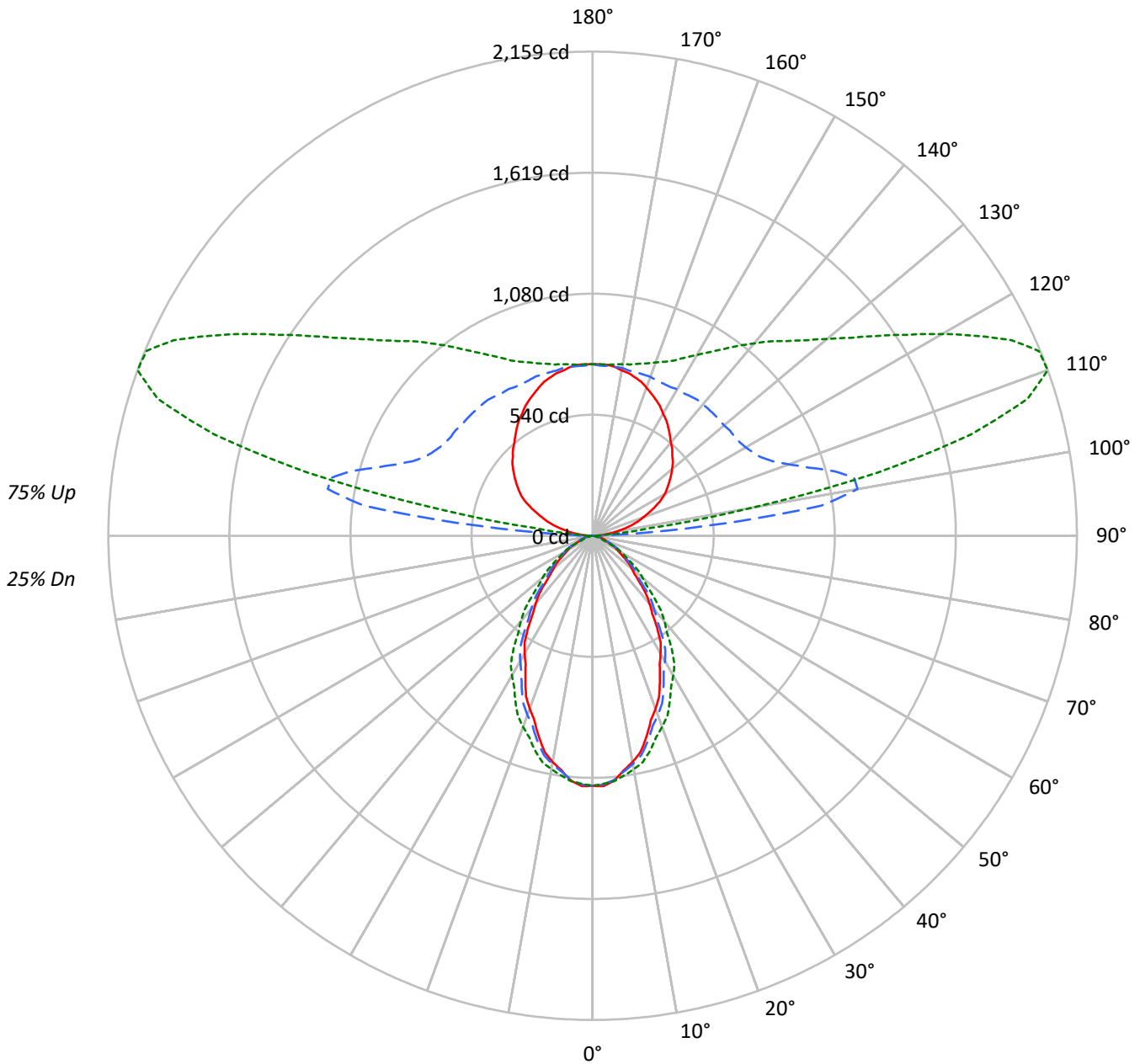
Lumens per Lamp: N/A
Luminaire Lumens: 6593.1 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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

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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	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°	10285	10285	10285
5°	10157	10121	10179
10°	9596	9683	9907
15°	8858	9065	9470
20°	8045	8347	8898
25°	7216	7609	8292
30°	6452	6874	7660
35°	5641	6048	6916
40°	4748	5126	5986
45°	3918	4258	4997
50°	3271	3567	4162
55°	2776	3059	3437
60°	2375	2653	2744
65°	1891	2231	1770
70°	1675	1743	1082
75°	1551	1412	663
80°	1429	1302	574
85°	1281	1196	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.6
10°-20°	266.0	4.0
20°-30°	344.5	5.2
30°-40°	337.3	5.1
40°-50°	258.2	3.9
50°-60°	172.1	2.6
60°-70°	93.9	1.4
70°-80°	39.1	0.6
80°-90°	12.9	0.2
90°-100°	304.6	4.6
100°-110°	1059.8	16.1
110°-120°	1026.6	15.6
120°-130°	805.3	12.2
130°-140°	637.4	9.7
140°-150°	491.9	7.5
150°-160°	352.6	5.3
160°-170°	215.7	3.3
170°-180°	73.0	1.1
0°-30°	712.7	10.8
0°-40°	1050.0	15.9
0°-60°	1480.3	22.5
0°-90°	1626.2	24.7
90°-120°	2391.0	36.3
90°-150°	4325.6	65.6
90°-180°	4967.0	75.3
0°-180°	6593.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1115	1115	1115	1115	1115	
5°	1097	1086	1093	1095	1099	102
15°	927	924	949	975	992	259
25°	709	711	747	780	814	326
35°	501	503	537	573	614	311
45°	300	306	326	351	383	234
55°	173	180	190	198	214	157
65°	87	94	102	89	81	90
75°	44	44	40	27	19	46
85°	12	12	11	7	4	13
90°	11	17	17	11	6	8
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°	1114.8	1114.8	1114.8	1114.8	1114.8
2.5°	1117.5	1107.5	1110.1	1110.0	1106.9
5°	1096.7	1085.6	1092.8	1095.3	1099.1
7.5°	1056.0	1047.7	1060.6	1070.2	1077.9
10°	1024.3	1017.1	1033.6	1047.6	1057.5
12.5°	987.6	981.4	1002.0	1020.5	1033.7
15°	927.4	924.1	949.0	974.7	991.5
17.5°	863.2	861.5	890.1	920.2	941.6
20°	819.4	818.9	850.1	881.6	906.3
22.5°	775.1	776.1	809.0	841.7	870.0
25°	708.8	710.7	747.4	780.0	814.5
27.5°	647.4	648.3	686.2	720.6	757.4
30°	605.6	607.9	645.2	680.8	719.0
32.5°	563.8	566.5	603.0	639.7	678.7
35°	500.8	503.3	537.0	573.2	614.0
37.5°	436.0	439.4	469.4	503.5	543.6
40°	394.2	399.1	425.6	457.8	497.0
42.5°	353.9	359.9	384.5	415.0	450.3
45°	300.3	306.1	326.3	350.9	383.0
47.5°	254.1	260.8	276.2	297.6	324.9
50°	227.9	234.2	248.5	264.2	290.0
52.5°	204.8	211.1	223.8	235.9	258.0
55°	172.6	179.9	190.2	197.6	213.7
57.5°	146.3	153.1	161.5	164.7	174.5
60°	128.7	136.3	143.8	143.4	148.7
62.5°	112.6	119.2	126.5	121.3	121.7
65°	86.6	93.7	102.2	89.3	81.1
67.5°	70.0	71.4	80.1	62.3	52.6
70°	62.1	62.1	64.6	48.2	40.1
72.5°	54.7	54.7	52.5	39.2	30.6
75°	43.5	43.5	39.6	27.2	18.6
77.5°	33.6	33.2	30.3	20.3	13.5
80°	26.9	26.9	24.5	16.0	10.8
82.5°	21.0	21.0	19.0	12.5	7.9
85°	12.1	12.1	11.3	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	2.0
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)