

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: P845387

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

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845387
REPORT IS A COMBINATION OF REPORTS P700156 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-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

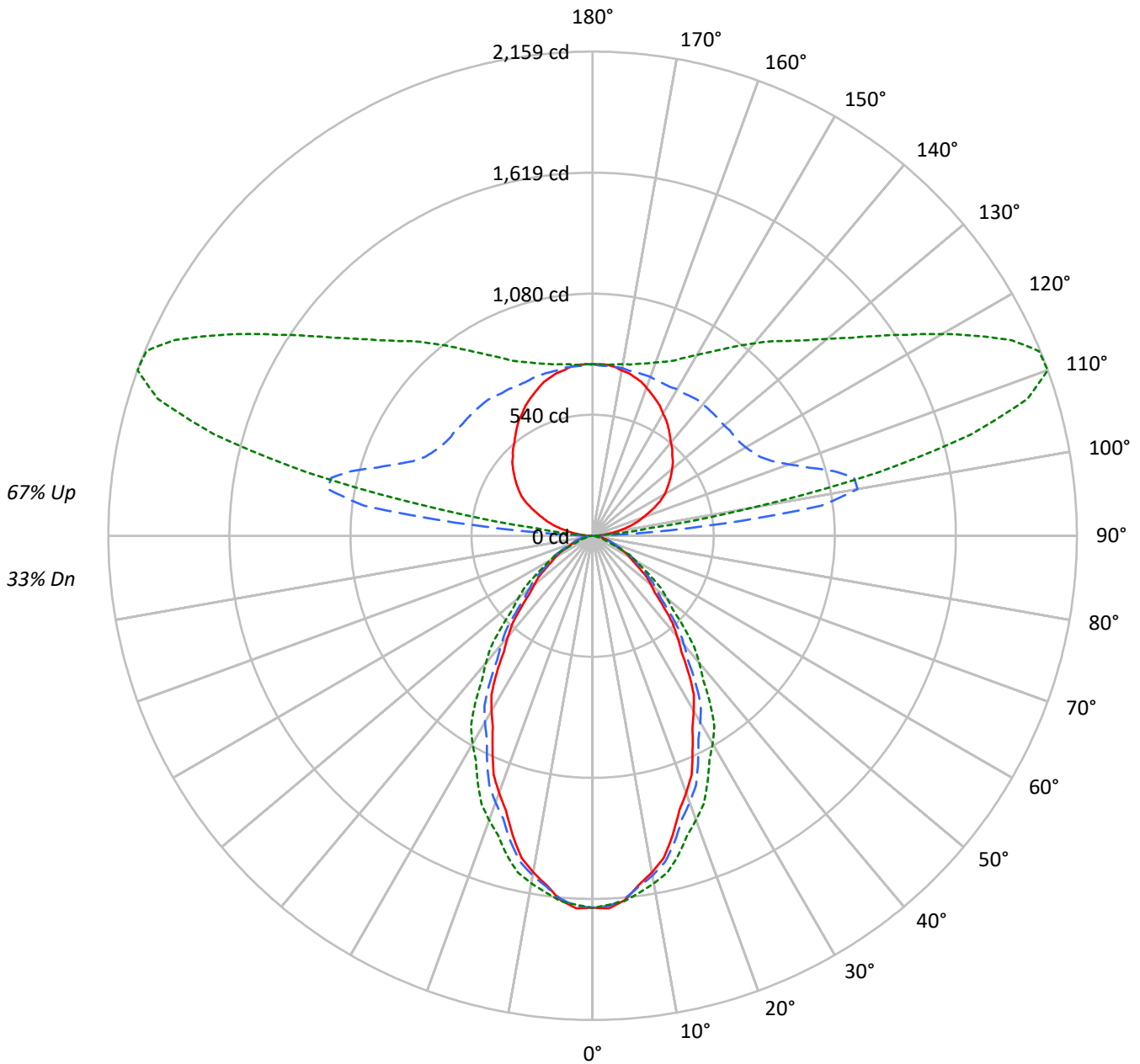
Lumens per Lamp: N/A
Luminaire Lumens: 7385.7 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

Input Watts (W): 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									
RC	80									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	103	103	103	103	93	93	93	93	74	74	74	56	56	56	40	40	40	33																			
1	95	91	87	84	85	82	79	76	66	64	62	51	49	48	37	36	35	29																			
2	87	80	75	70	78	73	68	64	58	55	52	45	43	41	33	32	31	26																			
3	80	71	64	59	72	65	59	54	52	48	45	41	38	36	30	29	27	23																			
4	73	63	56	51	66	58	51	47	47	42	39	37	34	32	28	26	24	20																			
5	67	57	49	44	61	52	45	41	42	38	34	33	30	28	25	23	22	18																			
6	62	51	44	38	56	47	40	36	38	34	30	30	27	25	23	21	19	16																			
7	58	46	39	34	52	42	36	31	35	30	27	28	25	22	21	19	18	15																			
8	54	42	35	30	49	39	32	28	32	27	24	26	22	20	20	18	16	14																			
9	50	39	32	27	45	35	29	25	29	25	22	24	20	18	18	16	15	12																			
10	47	36	29	24	42	33	27	23	27	23	20	22	19	17	17	15	14	12																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15304	15304	15304
5°	15114	15058	15147
10°	14279	14408	14741
15°	13180	13488	14092
20°	11970	12419	13241
25°	10737	11321	12337
30°	9600	10227	11398
35°	8394	9000	10289
40°	7065	7626	8907
45°	5830	6333	7436
50°	4867	5306	6194
55°	4132	4554	5115
60°	3534	3949	4084
65°	2814	3321	2637
70°	2495	2592	1610
75°	2310	2103	987
80°	2125	1934	850
85°	1916	1778	699



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	152.1	2.1
10°-20°	395.7	5.4
20°-30°	512.6	6.9
30°-40°	502.0	6.8
40°-50°	384.2	5.2
50°-60°	256.0	3.5
60°-70°	139.7	1.9
70°-80°	58.2	0.8
80°-90°	18.3	0.2
90°-100°	304.6	4.1
100°-110°	1059.8	14.3
110°-120°	1026.6	13.9
120°-130°	805.3	10.9
130°-140°	637.4	8.6
140°-150°	491.9	6.7
150°-160°	352.6	4.8
160°-170°	215.7	2.9
170°-180°	73.0	1.0
0°-30°	1060.5	14.4
0°-40°	1562.4	21.2
0°-60°	2202.6	29.8
0°-90°	2418.9	32.8
90°-120°	2391.0	32.4
90°-150°	4325.6	58.6
90°-180°	4967.0	67.3
0°-180°	7385.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1659	1659	1659	1659	1659	
5°	1632	1615	1626	1630	1636	152
15°	1380	1375	1412	1450	1475	385
25°	1055	1057	1112	1161	1212	485
35°	745	749	799	853	914	463
45°	447	455	485	522	570	348
55°	257	268	283	294	318	233
65°	129	140	152	133	121	134
75°	65	65	59	40	28	69
85°	18	18	17	11	7	20
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°	1658.7	1658.7	1658.7	1658.7	1658.7
2.5°	1662.8	1648.0	1651.8	1651.6	1647.0
5°	1631.9	1615.3	1625.9	1629.7	1635.5
7.5°	1571.2	1558.9	1578.1	1592.3	1603.9
10°	1524.1	1513.4	1537.9	1558.7	1573.5
12.5°	1469.4	1460.3	1490.8	1518.4	1538.1
15°	1379.9	1375.0	1412.1	1450.4	1475.3
17.5°	1284.4	1281.9	1324.4	1369.2	1401.0
20°	1219.1	1218.4	1264.9	1311.7	1348.6
22.5°	1153.3	1154.8	1203.7	1252.4	1294.5
25°	1054.7	1057.4	1112.1	1160.6	1211.9
27.5°	963.4	964.7	1021.0	1072.3	1127.0
30°	901.1	904.6	960.0	1013.0	1069.9
32.5°	838.8	842.9	897.1	951.9	1009.9
35°	745.3	748.9	799.1	853.0	913.5
37.5°	648.9	653.8	698.4	749.2	808.9
40°	586.6	593.8	633.2	681.2	739.5
42.5°	526.6	535.5	572.1	617.6	670.1
45°	446.8	455.4	485.4	522.2	569.9
47.5°	378.1	388.0	411.1	442.7	483.4
50°	339.1	348.5	369.7	393.1	431.5
52.5°	304.8	314.0	333.0	351.1	383.9
55°	256.9	267.5	283.1	294.0	318.0
57.5°	217.6	227.9	240.2	245.0	259.7
60°	191.5	202.9	214.0	213.3	221.3
62.5°	167.5	177.3	188.4	180.5	181.0
65°	128.9	139.5	152.1	133.0	120.8
67.5°	104.1	106.3	119.3	92.8	78.3
70°	92.5	92.5	96.1	71.8	59.7
72.5°	81.4	81.4	78.1	58.3	45.6
75°	64.8	64.8	59.0	40.5	27.7
77.5°	49.9	49.4	45.1	30.1	20.1
80°	40.0	40.0	36.4	23.9	16.0
82.5°	31.3	31.3	28.2	18.6	11.8
85°	18.1	18.1	16.8	10.9	6.6
87.5°	6.5	6.5	5.8	3.4	2.9
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)