

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: P845219

Luminaire Tested: **SQ4P-PR1-150U-075D-B35-1D-UNV**

Issue Date: 8/14/2023

Test Information

Test Method: LM-79-08
Report Number: P845219
REPORT IS A COMBINATION OF REPORTS P700148 AND P700248
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PR1-150U-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

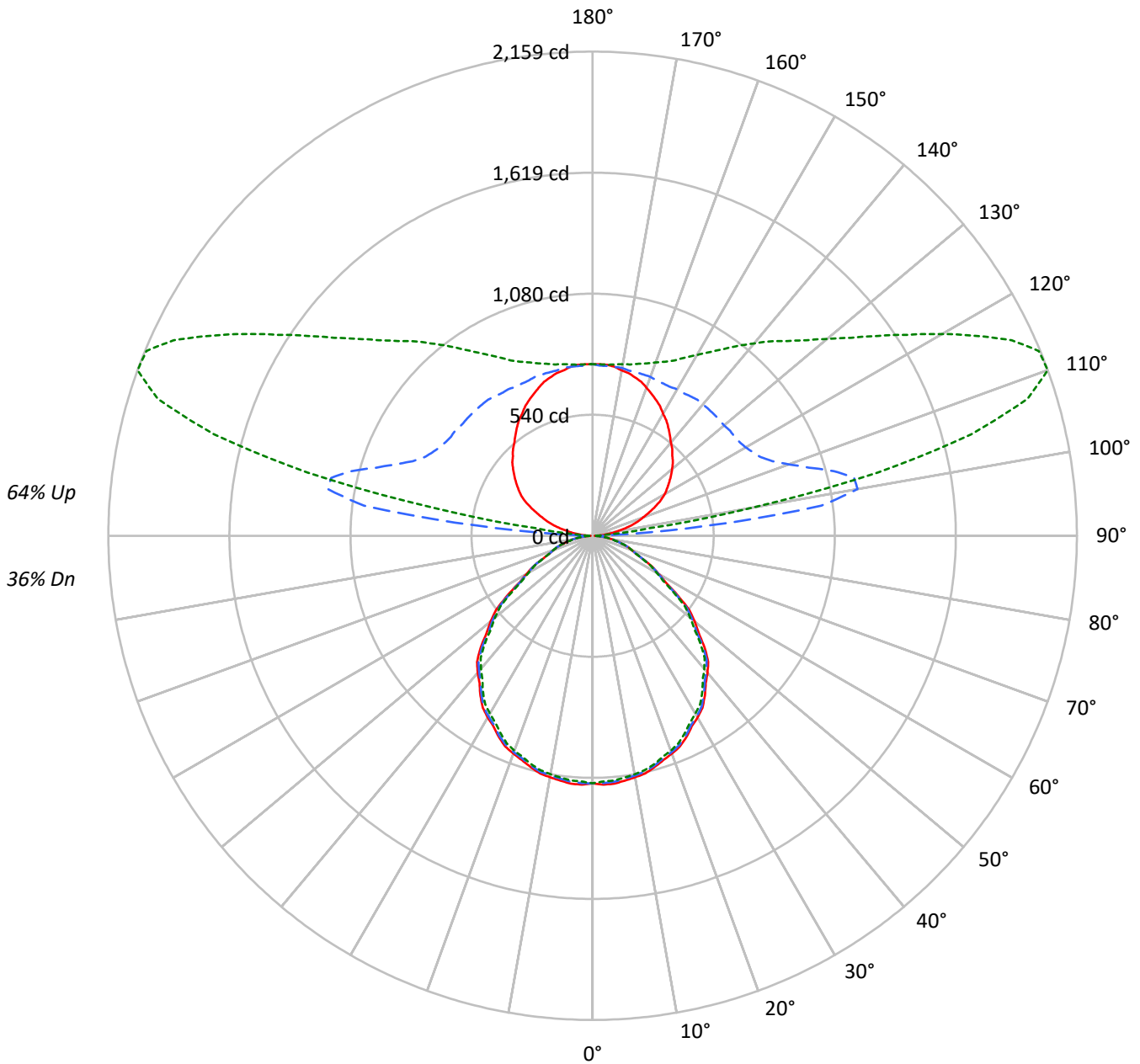
Lumens per Lamp: N/A
Luminaire Lumens: 7728.2 lumens
Efficiency: N/A
Efficacy: 112.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.24 / 1.35
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Indirect

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	104	104	104	104	94	94	94	94	75	75	75	59	59	59	43	43	43	36				36
1	95	91	87	84	86	82	79	76	66	64	62	52	50	49	38	37	37	30				30
2	86	79	73	69	78	72	67	63	58	55	52	46	43	41	34	32	31	26				26
3	79	70	63	57	71	64	58	53	52	47	44	41	38	35	30	28	27	22				22
4	72	62	54	48	65	56	50	45	46	41	37	36	33	30	27	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	32	29	26	24	22	20	17				17
6	61	49	42	36	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	45	37	31	51	41	34	29	33	28	25	27	23	20	20	18	16	13				13
8	52	40	33	28	47	37	30	26	30	25	22	24	21	18	19	16	14	12				12
9	49	37	29	25	44	34	27	23	28	23	19	22	19	16	17	15	13	11				11
10	45	34	27	22	41	31	25	20	26	21	17	21	17	15	16	13	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10184	10184	10184
5°	10276	10198	10144
10°	10244	10172	10118
15°	10199	10135	10080
20°	10148	10081	10008
25°	10075	10009	9892
30°	9966	9897	9754
35°	9820	9735	9595
40°	9595	9492	9321
45°	9205	9043	8857
50°	8516	8311	8147
55°	7431	7266	7113
60°	6265	6211	6087
65°	5418	5438	5397
70°	4974	4999	4999
75°	4780	4780	4812
80°	4490	4543	4490
85°	3620	4033	4033



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.4	1.4
10°-20°	298.7	3.9
20°-30°	450.5	5.8
30°-40°	536.8	6.9
40°-50°	529.2	6.8
50°-60°	404.4	5.2
60°-70°	250.2	3.2
70°-80°	142.1	1.8
80°-90°	45.1	0.6
90°-100°	304.6	3.9
100°-110°	1059.8	13.7
110°-120°	1026.6	13.3
120°-130°	805.3	10.4
130°-140°	637.4	8.2
140°-150°	491.9	6.4
150°-160°	352.6	4.6
160°-170°	215.7	2.8
170°-180°	73.0	0.9
0°-30°	853.6	11.0
0°-40°	1390.3	18.0
0°-60°	2323.9	30.1
0°-90°	2761.4	35.7
90°-120°	2391.0	30.9
90°-150°	4325.6	56.0
90°-180°	4967.0	64.3
0°-180°	7728.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1110	1098	1101	1097	1095	105
15°	1068	1057	1061	1057	1055	301
25°	990	978	983	973	972	455
35°	872	862	864	853	852	544
45°	706	696	693	681	679	540
55°	462	455	452	444	442	414
65°	248	246	249	247	247	251
75°	134	134	134	135	135	142
85°	34	36	38	38	38	40
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°	1103.8	1103.8	1103.8	1103.8	<i>1103.8</i>
2.5°	1110.8	1101.1	1103.8	1101.6	<i>1096.3</i>
5°	1109.6	1097.5	1101.1	1097.1	<i>1095.3</i>
7.5°	1101.1	1089.0	1092.7	1088.8	<i>1087.8</i>
10°	1093.4	1082.2	1085.8	1082.0	<i>1080.0</i>
12.5°	1085.0	1073.2	1077.5	1072.9	<i>1071.0</i>
15°	1067.8	1056.7	1061.1	1057.3	<i>1055.3</i>
17.5°	1048.7	1036.8	1041.4	1037.0	<i>1034.5</i>
20°	1033.6	1022.4	1026.8	1020.3	<i>1019.3</i>
22.5°	1016.8	1005.7	1010.1	1001.3	<i>1001.1</i>
25°	989.7	977.7	983.2	972.7	<i>971.7</i>
27.5°	957.6	946.5	951.0	940.3	<i>939.3</i>
30°	935.5	924.4	929.0	917.5	<i>915.6</i>
32.5°	910.5	900.1	903.9	892.5	<i>891.3</i>
35°	871.9	861.6	864.3	852.9	<i>851.9</i>
37.5°	828.0	818.7	820.1	807.5	<i>806.7</i>
40°	796.7	787.5	788.1	774.9	<i>773.9</i>
42.5°	762.6	753.3	752.4	739.2	<i>738.2</i>
45°	705.5	696.2	693.1	680.7	<i>678.8</i>
47.5°	640.5	631.2	625.4	615.2	<i>614.0</i>
50°	593.3	584.0	579.0	570.4	<i>567.6</i>
52.5°	542.3	533.0	528.9	521.0	<i>518.2</i>
55°	462.0	454.6	451.7	444.0	<i>442.2</i>
57.5°	385.8	380.9	379.9	372.5	<i>371.8</i>
60°	339.5	336.6	336.6	329.9	<i>329.9</i>
62.5°	299.9	297.8	299.2	294.8	<i>294.2</i>
65°	248.2	246.3	249.1	247.2	<i>247.2</i>
67.5°	207.4	207.4	208.9	208.1	<i>208.1</i>
70°	184.4	184.4	185.3	185.3	<i>185.3</i>
72.5°	163.9	163.2	165.7	165.6	<i>164.9</i>
75°	134.1	134.1	134.1	135.0	<i>135.0</i>
77.5°	104.4	104.6	105.4	105.2	<i>104.4</i>
80°	84.5	85.5	85.5	84.5	<i>84.5</i>
82.5°	64.9	65.8	65.8	65.6	<i>64.9</i>
85°	34.2	36.0	38.1	38.1	<i>38.1</i>
87.5°	9.8	12.8	15.3	15.3	<i>14.4</i>
90°	11.4	17.1	17.1	11.4	<i>5.7</i>
92.5°	28.6	85.6	79.9	34.2	<i>28.6</i>
95°	51.4	177.0	514.0	131.3	<i>79.9</i>
97.5°	79.9	199.9	1028.1	468.3	<i>251.3</i>
100°	108.5	211.3	1199.4	1125.2	<i>725.3</i>
102.5°	142.8	228.5	1193.7	1582.0	<i>1302.2</i>
105°	177.0	251.3	1113.7	1879.0	<i>1747.7</i>



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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)