

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: P845086

Luminaire Tested: **SQ4P-PP3-075U-050D-B50-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845086
REPORT IS A COMBINATION OF REPORTS P700227 AND P700245
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-PP3-075U-050D-B50-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 750 LUMENS PER FOOT UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

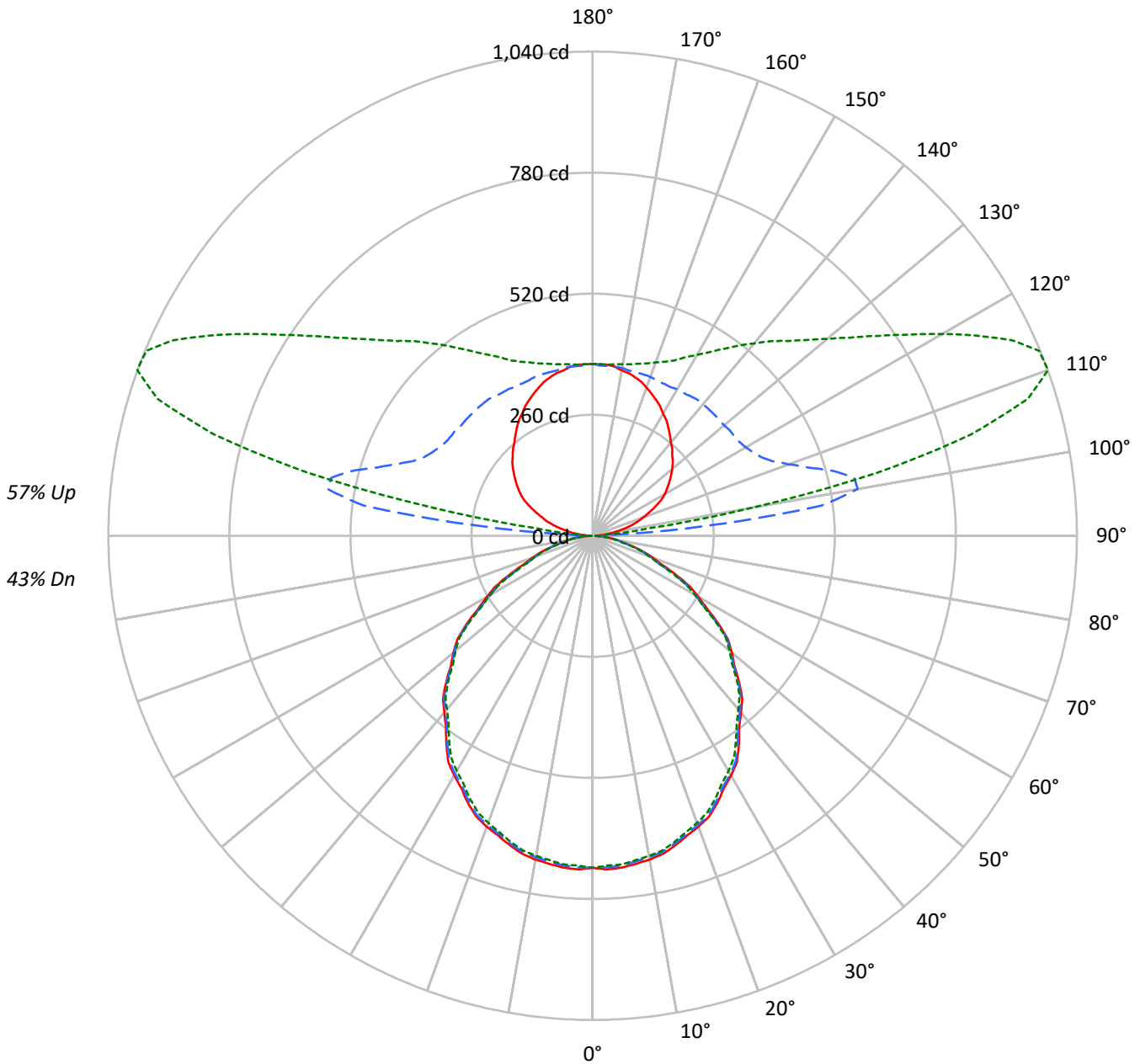
Lumens per Lamp: N/A
Luminaire Lumens: 4219.7 lumens
Efficiency: N/A
Efficacy: 117.9 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.22 / 1.33
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 35.8
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	106	106	106	106	96	96	96	96	80	80	80	64	64	64	50	50	50	43			43
1	96	92	88	85	88	85	81	78	70	68	66	57	55	54	44	43	43	37			37
2	88	81	75	70	80	74	69	65	62	58	55	50	47	45	39	38	36	31			31
3	80	71	64	58	73	65	59	54	54	50	46	44	41	38	35	33	31	26			26
4	73	63	55	49	67	58	51	46	48	43	39	39	36	33	31	29	27	23			23
5	67	56	48	42	61	52	45	39	43	38	34	35	32	28	28	25	23	20			20
6	62	50	42	37	57	46	39	34	39	34	29	32	28	25	26	23	20	17			17
7	57	45	37	32	52	42	35	30	35	30	26	29	25	22	23	20	18	15			15
8	53	41	33	28	49	38	31	26	32	27	23	27	23	20	21	18	16	14			14
9	49	37	30	25	45	35	28	24	29	24	21	24	20	18	20	17	15	12			12
10	46	34	27	22	42	32	25	21	27	22	18	23	19	16	18	15	13	11			11

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	6579	6579	6579
5°	6627	6587	6564
10°	6616	6570	6540
15°	6573	6536	6500
20°	6528	6492	6443
25°	6451	6407	6343
30°	6331	6298	6218
35°	6167	6124	6046
40°	5968	5930	5863
45°	5806	5765	5708
50°	5596	5562	5507
55°	5308	5237	5197
60°	4831	4694	4670
65°	4259	4080	4065
70°	3674	3523	3523
75°	3165	3119	3073
80°	2789	2821	2752
85°	2181	2392	2392



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.4	1.6
10°-20°	192.5	4.6
20°-30°	288.4	6.8
30°-40°	338.2	8.0
40°-50°	339.3	8.0
50°-60°	289.5	6.9
60°-70°	188.8	4.5
70°-80°	94.7	2.2
80°-90°	27.1	0.6
90°-100°	146.8	3.5
100°-110°	510.8	12.1
110°-120°	494.8	11.7
120°-130°	388.1	9.2
130°-140°	307.2	7.3
140°-150°	237.1	5.6
150°-160°	169.9	4.0
160°-170°	103.9	2.5
170°-180°	35.2	0.8
0°-30°	548.3	13.0
0°-40°	886.6	21.0
0°-60°	1515.3	35.9
0°-90°	1826.0	43.3
90°-120°	1152.3	27.3
90°-150°	2084.7	49.4
90°-180°	2394.0	56.7
0°-180°	4219.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	713	713	713	713	713	
5°	716	709	711	709	709	68
15°	688	681	684	682	680	194
25°	634	626	629	624	623	291
35°	548	542	544	537	537	342
45°	445	442	442	438	438	343
55°	330	329	326	324	323	293
65°	195	191	187	186	186	195
75°	89	89	88	87	86	96
85°	21	22	23	23	23	24
90°	6	8	8	6	3	4
95°	25	85	248	63	39	26
105°	85	121	537	906	842	90
115°	149	179	399	842	994	147
125°	201	248	372	628	749	180
135°	242	272	369	523	592	188
145°	284	303	366	452	490	177
155°	322	333	360	402	416	148
165°	352	355	363	380	383	99
175°	369	369	366	372	369	35
180°	369	369	369	369	369	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	713.1	713.1	713.1	713.1	713.1
2.5°	717.5	711.7	713.1	712.0	709.1
5°	715.5	708.9	711.2	708.7	708.7
7.5°	710.7	703.4	705.6	703.2	703.1
10°	706.2	698.9	701.3	698.7	698.1
12.5°	699.7	692.4	695.2	692.2	692.1
15°	688.1	681.3	684.3	681.7	680.5
17.5°	675.0	667.7	671.2	667.8	667.2
20°	664.9	657.6	661.2	656.2	656.2
22.5°	653.0	645.7	649.8	643.2	643.2
25°	633.7	626.3	629.4	623.7	623.1
27.5°	610.8	603.6	606.7	600.3	600.2
30°	594.3	587.6	591.2	584.4	583.7
32.5°	576.4	570.1	572.7	565.8	565.1
35°	547.5	542.0	543.7	537.4	536.8
37.5°	517.0	511.5	513.4	508.0	507.8
40°	495.5	491.9	492.4	488.0	486.8
42.5°	475.6	471.4	471.9	467.5	467.3
45°	445.0	441.8	441.8	437.5	437.5
47.5°	412.5	410.1	409.5	405.8	405.7
50°	389.9	388.1	387.5	384.3	383.7
52.5°	366.4	365.6	363.5	360.8	360.7
55°	330.0	328.7	325.6	323.7	323.1
57.5°	290.4	287.9	284.4	281.7	282.1
60°	261.8	259.3	254.4	253.1	253.1
62.5°	234.4	231.4	226.4	224.7	225.6
65°	195.1	191.4	186.9	185.6	186.2
67.5°	159.3	155.9	151.1	151.1	150.6
70°	136.2	134.3	130.6	130.6	130.6
72.5°	115.8	114.8	112.1	112.1	111.7
75°	88.8	88.8	87.5	86.8	86.2
77.5°	66.5	66.7	66.2	65.5	64.4
80°	52.5	53.8	53.1	52.5	51.8
82.5°	39.5	40.7	40.7	39.5	39.3
85°	20.6	22.4	22.6	22.6	22.6
87.5°	5.5	7.4	8.0	8.0	8.5
90°	5.5	8.3	8.3	5.5	2.8
92.5°	13.8	41.3	38.6	16.5	13.8
95°	24.8	85.3	247.7	63.3	38.6
97.5°	38.6	96.3	495.4	225.7	121.1
100°	52.3	101.9	578.0	542.3	349.6
102.5°	68.8	110.1	575.3	762.5	627.6
105°	85.3	121.1	536.8	905.6	842.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	132.1	162.4	418.4	911.1	1037.7
115°	148.6	178.9	399.1	842.3	993.6
117.5°	165.2	198.2	388.1	778.9	930.3
120°	178.9	214.7	379.9	718.4	867.0
122.5°	189.9	231.2	374.3	668.9	803.7
125°	201.0	247.7	371.6	627.6	748.7
127.5°	211.9	258.8	371.6	597.3	699.2
130°	223.0	264.3	368.8	567.0	657.8
132.5°	233.9	266.9	368.8	545.0	622.1
135°	242.2	272.5	368.8	522.9	591.8
137.5°	253.2	278.0	368.8	503.7	567.0
140°	261.5	286.3	368.8	484.4	539.5
142.5°	272.5	294.6	368.8	465.2	514.7
145°	283.5	302.7	366.1	451.5	489.9
147.5°	294.6	311.0	363.3	437.6	467.9
150°	302.7	319.3	363.3	423.8	448.7
152.5°	313.8	327.5	360.5	410.1	432.1
155°	322.1	333.0	360.5	401.8	415.7
157.5°	330.3	341.3	360.5	393.6	404.6
160°	338.5	346.8	363.3	388.1	396.3
162.5°	346.8	352.3	363.3	382.6	388.1
165°	352.3	355.1	363.3	379.9	382.6
167.5°	357.9	360.5	363.3	377.1	377.1
170°	360.5	363.3	366.1	374.3	374.3
172.5°	366.1	366.1	366.1	371.6	371.6
175°	368.8	368.8	366.1	371.6	368.8
177.5°	368.8	368.8	366.1	371.6	368.8
180°	368.8	368.8	368.8	368.8	368.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	101.9	134.9	487.2	968.9	979.9
110°	115.6	148.6	448.7	960.6	1040.5



(END OF REPORT)