

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: P845313

Luminaire Tested: **SQ4P-WB-025U-050D-B40-1D-UNV**

Issue Date: 8/14/2023



Test Information

Test Method: LM-79-08
Report Number: P845313
REPORT IS A COMBINATION OF REPORTS P700183 AND P700243
Test Lab: INNOVATION CENTER
Issue Date: 8/14/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SQ4P-WB-025U-050D-B40-1D-UNV
Description: CORELITE SQ4 SUSPENDED LED LUMINAIRE WITH, 250 LUMENS PER FOOT
UPLIGHT, 500 LUMENS PER FOOT DOWNLIGHT

Light Source: -
Ballast/Driver: -

Summary

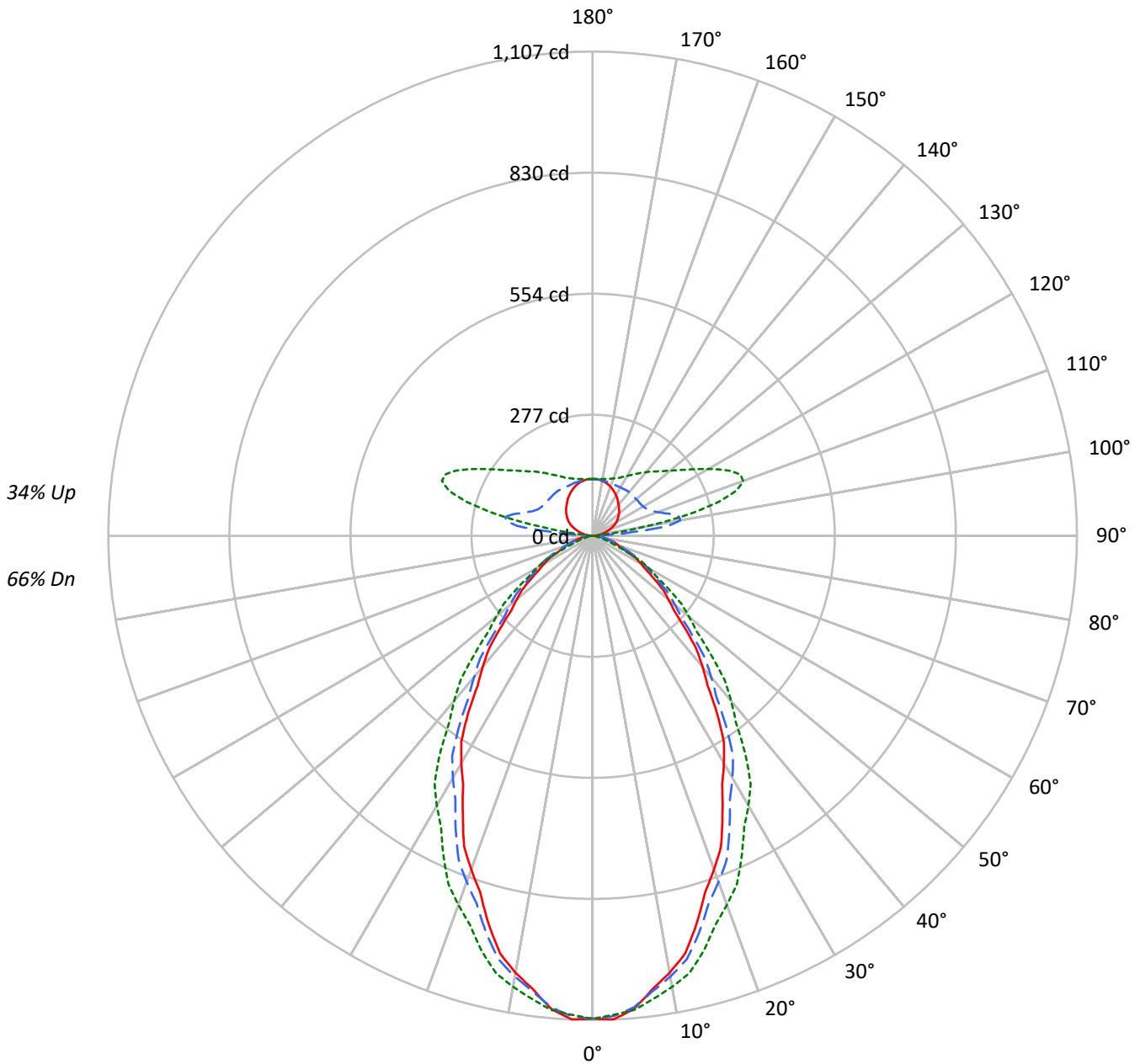
Lumens per Lamp: N/A
Luminaire Lumens: 2451.7 lumens
Efficiency: N/A
Efficacy: 103.0 lumens/watt
Spacing Criteria (0/90/45): 0.89 / 1 / 1.02
Luminous Opening: Rectangular (W 0.29' x L: 4' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 23.8
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66				66
1	103	99	95	92	97	93	90	88	83	81	79	73	72	70	65	63	62	58				58
2	95	88	83	78	89	83	79	75	75	71	68	66	64	61	59	57	55	51				51
3	88	79	72	67	82	75	69	64	67	63	59	60	57	54	54	51	49	45				45
4	81	71	64	58	76	68	61	56	61	56	52	55	51	48	49	46	43	40				40
5	75	64	57	51	71	61	55	49	55	50	46	50	46	42	45	42	39	36				36
6	70	59	51	46	66	56	49	44	51	45	41	46	42	38	42	38	35	33				33
7	65	54	46	41	61	51	44	40	47	41	37	42	38	34	38	35	32	30				30
8	61	49	42	37	58	47	40	36	43	38	34	39	35	31	36	32	29	27				27
9	57	45	38	33	54	44	37	33	40	34	31	37	32	29	33	30	27	25				25
10	54	42	35	31	51	40	34	30	37	32	28	34	30	26	31	28	25	23				23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10186	10186	10186
5°	10058	10023	10081
10°	9503	9589	9812
15°	8772	8977	9379
20°	7967	8265	8812
25°	7145	7535	8211
30°	6390	6807	7585
35°	5587	5990	6848
40°	4701	5075	5928
45°	3880	4216	4949
50°	3240	3531	4122
55°	2749	3030	3404
60°	2351	2629	2718
65°	1873	2209	1753
70°	1659	1726	1071
75°	1536	1397	656
80°	1413	1286	569
85°	1270	1175	466



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	4.1
10°-20°	263.4	10.7
20°-30°	341.1	13.9
30°-40°	334.1	13.6
40°-50°	255.7	10.4
50°-60°	170.4	6.9
60°-70°	93.0	3.8
70°-80°	38.7	1.6
80°-90°	11.3	0.5
90°-100°	51.7	2.1
100°-110°	179.8	7.3
110°-120°	174.2	7.1
120°-130°	136.6	5.6
130°-140°	108.2	4.4
140°-150°	83.5	3.4
150°-160°	59.8	2.4
160°-170°	36.6	1.5
170°-180°	12.4	0.5
0°-30°	705.8	28.8
0°-40°	1039.8	42.4
0°-60°	1465.9	59.8
0°-90°	1608.9	65.6
90°-120°	405.7	16.5
90°-150°	734.0	29.9
90°-180°	843.0	34.4
0°-180°	2451.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1104	1104	1104	1104	1104	
5°	1086	1075	1082	1085	1088	101
15°	918	915	940	965	982	256
25°	702	704	740	772	807	323
35°	496	498	532	568	608	308
45°	297	303	323	348	379	232
55°	171	178	188	196	212	155
65°	86	93	101	88	80	89
75°	43	43	39	27	18	46
85°	12	12	11	7	4	13
90°	2	3	3	2	1	2
95°	9	30	87	22	14	9
105°	30	43	189	319	297	32
115°	52	63	140	297	350	52
125°	71	87	131	221	264	63
135°	85	96	130	184	208	66
145°	100	107	129	159	172	62
155°	113	117	127	142	146	52
165°	124	125	128	134	135	35
175°	130	130	129	131	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1104.0	1104.0	1104.0	1104.0	1104.0
2.5°	1106.7	1096.8	1099.3	1099.2	1096.1
5°	1086.0	1075.1	1082.2	1084.7	1088.5
7.5°	1045.7	1037.5	1050.3	1059.8	1067.4
10°	1014.3	1007.2	1023.5	1037.4	1047.3
12.5°	978.0	971.9	992.2	1010.6	1023.6
15°	918.4	915.1	939.8	965.3	981.9
17.5°	854.8	853.2	881.5	911.3	932.4
20°	811.4	810.9	841.8	873.0	897.5
22.5°	767.6	768.6	801.1	833.5	861.6
25°	701.9	703.8	740.2	772.4	806.6
27.5°	641.1	642.0	679.5	713.6	750.1
30°	599.8	602.0	638.9	674.2	712.0
32.5°	558.3	561.0	597.1	633.5	672.1
35°	496.0	498.4	531.8	567.7	608.0
37.5°	431.8	435.1	464.9	498.6	538.3
40°	390.3	395.2	421.4	453.3	492.2
42.5°	350.5	356.4	380.7	411.0	446.0
45°	297.4	303.1	323.1	347.5	379.3
47.5°	251.7	258.3	273.6	294.7	321.7
50°	225.7	231.9	246.0	261.6	287.2
52.5°	202.8	209.0	221.6	233.6	255.5
55°	170.9	178.1	188.4	195.7	211.6
57.5°	144.9	151.7	159.9	163.1	172.8
60°	127.4	135.0	142.5	142.0	147.3
62.5°	111.5	118.0	125.3	120.2	120.6
65°	85.8	92.8	101.2	88.5	80.3
67.5°	69.3	70.7	79.4	61.7	52.1
70°	61.5	61.5	64.0	47.8	39.7
72.5°	54.2	54.2	51.9	38.9	30.3
75°	43.1	43.1	39.2	26.9	18.4
77.5°	33.2	32.9	30.0	20.1	13.4
80°	26.6	26.6	24.2	15.9	10.7
82.5°	20.8	20.8	18.8	12.4	7.8
85°	12.0	12.0	11.1	7.3	4.4
87.5°	4.3	4.3	3.9	2.3	1.9
90°	1.9	2.9	2.9	1.9	1.0
92.5°	4.8	14.5	13.6	5.8	4.8
95°	8.7	30.0	87.2	22.3	13.6
97.5°	13.6	33.9	174.4	79.5	42.6
100°	18.4	35.9	203.5	190.9	123.1
102.5°	24.2	38.8	202.5	268.4	220.9
105°	30.0	42.6	189.0	318.9	296.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.5	57.2	147.3	320.9	365.4
115°	52.3	63.0	140.5	296.6	349.9
117.5°	58.1	69.8	136.6	274.2	327.6
120°	63.0	75.6	133.7	252.9	305.4
122.5°	66.9	81.4	131.8	235.5	283.1
125°	70.7	87.2	130.8	220.9	263.6
127.5°	74.6	91.1	130.8	210.3	246.1
130°	78.5	93.0	129.9	199.6	231.6
132.5°	82.4	94.0	129.9	191.9	219.0
135°	85.3	95.9	129.9	184.1	208.3
137.5°	89.2	97.9	129.9	177.3	199.6
140°	92.1	100.8	129.9	170.6	189.9
142.5°	95.9	103.7	129.9	163.8	181.2
145°	99.8	106.6	128.9	158.9	172.5
147.5°	103.7	109.5	127.9	154.1	164.7
150°	106.6	112.4	127.9	149.2	158.0
152.5°	110.5	115.3	126.9	144.4	152.1
155°	113.4	117.3	126.9	141.5	146.3
157.5°	116.3	120.2	126.9	138.6	142.5
160°	119.2	122.1	127.9	136.6	139.5
162.5°	122.1	124.0	127.9	134.7	136.6
165°	124.0	125.0	127.9	133.7	134.7
167.5°	126.0	126.9	127.9	132.8	132.8
170°	126.9	127.9	128.9	131.8	131.8
172.5°	128.9	128.9	128.9	130.8	130.8
175°	129.9	129.9	128.9	130.8	129.9
177.5°	129.9	129.9	128.9	130.8	129.9
180°	129.9	129.9	129.9	129.9	129.9



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	35.9	47.5	171.5	341.2	345.1
110°	40.7	52.3	158.0	338.3	366.4



(END OF REPORT)